The Eagle

United States Army Space and Missile Defense Command

Volume 9, Number 8, October 2002

SMDC gets first of two new buildings

Von Braun complex page 7

By Maj. Laura Kenney

Colorado Springs, Colo. - Two senior officers officiated the long-awaited opening of the 'home' for Army Space Command at Peterson Air Force Base Oct. 9.

Adm. James O. Ellis Jr., commander, United States Strategic Command, and LTG Joseph M. Cosumano Jr., commander, U.S. Army Space and Missile Defense Command and U.S. Army Space Command, did the honors.

They symbolically opened the new headquarters by cutting the red, white and blue satin ribbon at the start of the sidewalk leading to the building. That walkway was lined with flags representing each of the fifty states and American territories.

The new building is symbolic of the future but also representative of a substantial past. Its unique coloration, a silvery, metallic green, immediately marks it out among its peers in the Space Complex as "the Army building."

Cosumano welcomed the large crowd composed of local dignitaries, former commanders of Army Space, servicemen and women from all branches, and reporters.

"Today, which seemed a long time in coming, is a very significant day in the history of Army Space Command," he said. "The two things that are most important about this magnificent facility are, first, we are now physically located on a secure military installation. Secondly, we are now co-located within this Joint Space Complex alongside those other members of the joint space team charged with providing space support to the warfighter and our nation."

Cosumano traced the history of the Army's involvement in Space, going back to 1943 with the establishment of the Ordnance Rocket Branch to manage the development of rockets. He cited the Army's many accomplishments, which have earned it the justified fame and slogan of "First in Space."

(Photo by Sharon Hartman)

Adm.James O. Ellis Jr., commander of the new U.S. Strategic Command, shakes hands with LTG Joseph M. Cosumano Jr., commanding general U.S. Army Space and Missile Defense Command, during the ribbon-cutting ceremony for the new U.S. Army Space Command building on Oct. 9.

See New Building on page 4

'Realizing Army Vision' theme sets mood for AUSA meeting

Defense Department, Army leaders to discuss transformation efforts

'Realizing the Army Vision," the theme of the Association of the United States Army's 2002 Annual Meeting Oct. 21-23 at the Marriott Wardman Park Hotel and the Omni Shoreham Hotel in Washington D.C., will set the tone for speeches and special presentations from senior Defense Department and Army leaders on subjects relating to the Army's transformation efforts as the service rapidly advances toward a force that will be lighter and more mobile, lethal and survivable on the battlefields of the future.

Association officials said this year's three-day conference will emphasize "AUSA's important educational and professional role in supporting the transforming Army — active, Army National Guard, U.S. Army Reserve — the men and women who serve and who have served, Army civilians, their families and the Army's important and necessary vision for the future."

The meeting attracts more than 27,000 members and guests annually.

Other events include military forums sponsored by AUSA's Institute of Land Warfare, the 18th Army Ten-Miler, Army Family forums, special events for NCOs and soldiers and the Marshall Dinner where former Sen. George J. Mitchell will receive the Association's highest award for selfless service to the nation, the George Catlett Marshall Medal. Mitchell will be the guest speaker at the dinner.

This meeting, known as the "free world's largest land warfare forum," will also focus on panel discussions, educational forums, and special multi-media presentations.

Inside The Eagle

32nd AAMDC and 4-5 ADA join Operation Noble Eagle

Story and photos by Sgt Erick Henson
1st Cavalry Division Public Affairs

BOLLING AIR FORCE BASE, Md. — While citizens of the world contemplated the first anniversary of the Sept. 11 attacks on America, soldiers of Fort Hood's 1st Cavalry Division's 4th Battalion, 5th Air Defense Artillery Regiment "Renegades" from Texas turned a sentinel's eye skyward, poised to protect our nation's capitol.

Elements of 4-5 ADA along with staff officers of the 32nd Army Air and Missile Defense Command from Fort Bliss, Texas, deployed to the National Capitol Region in early September as part of a multi-layered air defense exercise called Clear Skies II. But once the nation's terror alert level was upgraded to orange, the Renegades and the 32nd AAMDC quickly re-postured and joined Operation Noble Eagle.

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CW2 Brian Venson, 32nd AAMDC, participates in Operation Noble Eagle in the National Capitol region.

Command Column

LTG Joseph M. Cosumano Jr.

Since the events of one year ago, SMDC has been at the forefront of America's military response. We deployed the Future Operational Capability Tactical Operations Center to the 1st Continental Air Defense Region (CONR) in support of Operation Noble Eagle and two ARSPACE liaison officers are still at 1st CONR providing Army space and missile defense expertise to that organization's continuing mission of defending the U.S. homeland.

To support Operation Enduring Freedom, we deployed Army Space Support Teams, a JTAGS Detachment, and the Space Electronic Warfare Detachment, accelerated Grenadier BRAT fielding, and activated the Blue Force Tracking Mission Management Center. ARSPACE soldiers man the Space and Information Operations Element — Rear, providing the warfighters a crucial reach-back capability to the unique space capabilities available from Colorado Springs. And, we graduated two more classes of Space Operations Officers who will carry these new space capabilities to the forces in the field.

This year has proven just how important space, air and missile defense, and information operations are to America's military forces. As the War on Terrorism continues, commanders will require unprecedented capabilities to access and exploit space, to secure their computer networks and conduct information operations, and protect forces from air and missile attack. SMDC is supporting the warfighter today, while simultaneously experimenting with new concepts and technologies in events like the recent Millennium Challenge '02, and pursuing the DTLOMS solutions that will transform today's Army into tomorrow's Objective Force.

The next year will surely be just as challenging for the SMDC family as was the last. I know all of you will continue to serve the nation with quiet competence and professionalism.

Secure The High Ground!

CSM Wilbur V. Adams Jr.

It was Nov. 22 some years ago when my homeroom teacher rushed into the school library to direct each of us to go home immediately. I remember walking into our house to find my mother with her head in her hands, crying.

Although I was young, I recognized from that image of despair that something very bad had happened. On our black-and-white television set, I remember a stoic Walter Cronkite telling the country, the world, us, that our president was dead. That was my first experience with a national tragedy.

I remember that afternoon seeing the same look of despair on the faces of our culturally diverse neighbors. I realized then that all of us — regardless of who we were or where we were from — were deeply affected by the tragedy, because we were all Americans. To me, to my family and to my neighbors, nothing else mattered. We were Americans.

Since that time, Americans have felt and lived through other national tragedies, most recently the terrorist attacks that occurred against the United States and Americans on Sept. 11, 2001. We all remember where we were, what we felt and how despair can affect an entire nation. We grieve for the families who lost loved ones, we hurt for the victims and we are humbled by those who perished attempting to save others.

Today, Americans are working together to combat future threats to our nation. Our military is transforming into a force more capable of fighting and eliminating terrorist actions. As we move toward our objective, we are picking up momentum. This spirit and motivation is due mainly to the support the military is getting from all Americans.

We face an abundance of complex problems and issues, but we will make it through. We will make it because we are committed, because we share the same dreams and because, most importantly, we are Americans.

Proud to be Here...Ready to Serve!

Absentee Voting Program kicks into high gear

By Jim Garamone
American Forces Press Service

WASHINGTON, D.C. — If you think your vote doesn't count, just ask George W. Bush and Al Gore.

"With the 2002 general election fast approaching Nov. 5, we want to encourage our military members, their dependents, our federal employees overseas and our overseas citizens to be aware of the elections and to exercise their right to vote," said Polli Brunelli, federal voting program director. "The objective is to create awareness of the electoral process and to motivate military members to participate in the upcoming general election."

She noted that the 2002 elections cover a third of the U.S. Senate, the entire U.S. House of Representatives, 37 governors and hundreds of local races. "These are lawmakers who will affect policies that govern our way of life," she said.

The states govern the voting rules for their residents. The FVAP works with state officials to ease absentee ballot processes. For example, Brunelli said, the program asked the states to allow service members deployed in support of Operation Enduring Freedom to receive voting materials by facsimile machines and to fax in completed ballots.

The agency urges military personnel to contact installation voting assistance officers to learn about what they must do to vote in 2002. All units with more than 25 people also have voting assistance officers.

U.S. citizens residing overseas can visit embassies and consulates and get the same information.

The program launched an education process to teach voting assistance officers what they need to know to help service members. Worldwide, the office sponsored more than 100 workshops, Brunelli said.

She said her office has met with state leaders to ensure all absentee ballots are in on time, properly filled out and counted.

"We're working on postal issues as well," Brunelli said. Deputy Defense Secretary Paul Wolfowitz signed a memo to the military postal service to ensure all voting materials are postmarked and canceled for all deployed vessels and personnel. Further, military postal service employees will look for voting materials to ensure they are moved expeditiously.

For more information on absentee voting, point your Web browser to www.fvap.gov.

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National Hispanic Heritage Month — Sept. 15 - Oct. 15

Hispanic Heritage Month is officially observed Sept. 15 through Oct. 15 each year, and is a national endeavor to recognize and celebrate the rich cultural influence of Hispanic Heritage throughout the history of the United States. The theme for this year was "Hispanic Americans: Strength in Unity, Faith and Diversity."

During National Hispanic Heritage Month, we reflect on the history of a people who were part of this land long before the birth of the United States.

The history of the United States and the history of Hispanics on this continent are so intertwined that they are almost inseparable. Hispanics have always challenged the future. The cultural diversity of the Hispanic people brought a rich diversity to a mosaic that is America. As with other ethnic groups in the fabric of diversity, their success in meeting their future will be everybody's success.

LTG Joseph M. Cosumano Jr., commanding general of the U.S. Army Space and Missile Defense Command, extends his appreciation to the Hispanic employees of SMDC for their support in the accomplishment of our mission.

(Photo by Sgt. 1st Class Dennis Beebe)

Dancers from the Ballet Folklorico of Pueblo perform several sets of dances representing various Hispanic backgrounds at an Army Space Command Hispanic Heritage celebration Sept. 18 at the Airport Radisson. Guest speakers for the event were Dr. Jose Barrera and Aida Richardson, both educators who are active in their Hispanic communities. Colorado Springs Fire Chief Manuel Navarro, the keynote speaker, encouraged Hispanics and other cultural groups to make a difference in their communities by getting involved.

What We Think

The Eagle asks:

How will the current economic uncertainty affect your upcoming holiday shopping plans?

"I pray that God will help my family prosper so that it will be possible to spend more this holiday. I feel that the more we spend for the holidays the better our economy will be."

Cathy Garza
data analyst,
Exercises & Training Div., Battle Lab,
Huntsville, Ala.

"I really can not see our spending over the holidays changing from last year. My husband and I will probably spend less on each other, but we have two young boys who still believe in Santa, which means double spending, especially if mom and dad don't want to be outdone by Santa. And today's kids want expensive gifts, game boys, video games, computer games, etc. Although the economy may be uncertain, and we should probably change our spending habits, I think we will overspend just like we have in the past on the kids."

Debbie Tomlinson
graphics/web designer,
Camber Corporation,
Huntsville, Ala.

"First, I believe the current economic uncertainty will certainly end soon. With that in mind, I will not alter my shopping plans. I do not base my holiday spending on what the markets do. I am in the market for the long-term and I do not take short-term gains into account when doing any budgeting. If I can't afford things now, I simply save until I can. Credit card debt is a no no! If we Americans continue to purchase more without going into debt, then that is the true indication of an economic turnaround. I expect the spending this holiday season to be a good economic sign!"

Ken Sims
environmental protection specialist,
Environmental Div.,
Huntsville, Ala.

"The current economic uncertainty will not affect my upcoming holiday shopping plans because I normally start my shopping three months ahead of time by utilizing lay-away plans, saving a few dollars each month in a separate holiday account and involving close family and friends in the ART of picking names out of a hat and setting a limit on how much to spend on a gift. Due to events such as 9/11, just having my loved ones around is a great gift for me, as well as priceless."

Adele Flores
legal administrator,
Office of Chief Counsel,
Arlington, Va.

New building

continued from page 1

Bringing that history into modern times, the SMDC commander spoke of contributions during the Gulf War, through and including the Global War on Terrorism.

Cosumano described the development of the concept for the building, which closely mirrored the growth of the Army's increasingly larger role in Space.

"Army Space soldiers have supported the full spectrum of military operations. Today, the soldiers and civilians of Army Space are on the cutting edge of normalizing space support and serving the warfighter around the globe.

"Though small in number, approximately 600 soldiers and civilians - compare that to the five who started things back in 1986! - Army Space is there, 24/7, 365 days a year, to provide the warfighter and others the space support they need to effectively carry out their mission of defending this great nation, its allies and friends from all enemies.

"From this location, we will continue providing Space capabilities to the Objective Force. Space provides a global quality and element to any Force using it, and without Space, any military is just a regional force. We will continue to ensure our nation's security with these capabilities so vital to the prosecution of warfare in the 21st Century.

"Today is the dawn of a new day for Army Space, as we cut the ribbon for this superb facility. This headquarters facility will have connectivity with all our Space Forces deployed around the globe, and assist in integration with our sister commands and higher headquarters."

On that note, the narrator introduced STRATCOM commander Ellis. In gleaming gold and striking black dress uniform, the naval admiral addressed the crowd.

(Photo by Sharon Hartman)

The new U.S. Army Space Command building is part of the Joint Space Complex on Peterson Air Force Base in Colorado Springs, Colo.

"To the people of this exceptional command, and all those who went before you pioneering in Army Space, I say, "First indeed." I challenge you to maintain and hone the edge that Space capabilities give our nation.

"Today's technological innovations allow us to fight on our own terms and decisively control the battlefield. The synergy created by the recent command restructuring adds to the global perspective of the domain of Space. Strong component relationships will allow us to be both flexible and rigorous in the face of new challenges.

"You will meet the challenges. The future is ours, as long as we, using a naval saying, "Steer by the stars, and not by the wake behind you."

The admiral and the general then led the crowd into the new headquarters for another ceremony. This one honored a deceased space pioneer, Maj. Gen. John B. Medaris, who oversaw much of the early space program. He became the first inductee to the Pioneer Conference Room, a space designated to honor those men and women who furthered the efforts of the Army in Space.

A portrait of Medaris was unveiled in the spacious lobby of Building Three by his daughter, Mrs. Marta Smith. It was then carried into the Pioneer Room and hung, with the assistance of the Army Space and Missile Defense Command Soldier of the Year, Sgt. Robert Orndoff.

"My father had a real sense of history, and I can definitely speak for him when I say that he would be so very proud of all Army Space has accomplished, and proud that his portrait will hang here in this incredible building. He was passionate about the defense of the nation, and what Space could do towards that goal, and I salute each and every one of you for carrying on that goal," said Smith.

Hourglass editor named best in DoD Journalism competition

By Peter Rejcek
Associate Editor, *Kwajalein Hourglass*

Jim Bennett is not your typical Army journalist. He didn't attend the Defense Information School (DINFOS), the trade school for military aspirants in journalism. The only thing khaki about him is his Dockers shorts. And while the haircut may be "high and tight," it's by choice not regulation.

Bennett, 30, is one of a growing number of contractor journalists employed at installation or base newspapers. In fact, in 2001, he was the best non-military journalist in all the Department of Defense.

As editor of *The Kwajalein Hourglass*, Bennett received a first place Thomas Jefferson Journalism Award as best contractor/stringer in DoD. Before that, he took top honors in the same category in the 2001 Keith L. Ware competition, the Army-level journalism contest.

The Oklahoma native and Chicago Cubs fatalist came to the *Hourglass* in October 1998 as associate editor. He was promoted to editor less than a year later in August 1999. His experience also includes about four years as a reporter at daily newspapers in Texas and Mississippi, during which he won an Associated Press first place for short features in 1995.

(Photo by Peter Rejcek)

Jim Bennett, editor of Kwajalein *Hourglass*, interviews a Marshallese boy on the neighborhood island of Ebeye.

Bennett credited support from the U.S. Army Kwajalein Atoll command and his four-member staff for winning the pair of prestigious awards.

"I just count it as another award for the newspaper," he said, noting that the same staff has been on board since he took over the operation. "That's a huge part of the paper's success ... it's a good team to work for."

The transition from commercial journalism to military journalism has not been too difficult, Bennett said, as he covered Naval Air Station Meridian while working for the *Meridian Star* in Mississippi.

"I enjoyed covering the military in Mississippi," he said. "It was a natural progression."

While there are differences between commercial and military newspapers, Bennett said the approach is the same — informing, entertaining and educating the reader.

"Our instructions [from the command] were to put out a community newspaper," he said. "That made my job easy, because that's basically what I've been working on most of my career."

Since taking the helm in 1999, he has steered the *Hourglass* to a number of awards, including its first-ever J-Award from the Office, Chief of Public Affairs, in 2000. That was followed closely by a Keith L. Ware award for best newspaper in its category in 2000. The Office, Chief of Public Affairs, has also rated the *Hourglass* a four-star publication.

The paper consistently earns excellent performance ratings from its Public Affairs office.

"I'm proud of Jim and the entire *Hourglass* team's many recognitions and awards," said LuAnne Fantasia, USAKA Public Affairs officer. " I admire their day-to-day achievements. They're professionals who found a balance between civilian newspaper backgrounds and command information for an Army installation. I think they're the best."

Civilian News

Health Benefits Open Season starts Nov. 11

The 2002 Federal Employees Health Benefits (FEHB) Open Season will be from Nov. 11 through Dec. 9. During this time, employees may elect to enroll or make changes to their existing FEHB coverage. The effective date of FEHB 2002 Open Season elections for Department of the Army civilian employees will be Jan. 12, 2003. Employees can also find in-depth information about FEHB and the upcoming open season at www.opm.gov/insure/health/hr.htm.

Open Season elections may be made via the Army Benefits Center – Civilian (ABC-C) using the Employee Benefits Information System (EBIS) at www.abc.army.mil or by calling 1-877-276-9287 and accessing the Interactive Voice Response System (IVRS). Counselors are available online from 6 a.m. to 6 p.m. Central Standard Time Monday through Friday except holidays. The EBIS is a Web application that allows you to access general and personal benefit information, and conduct electronic transactions using a computer. The system contains comprehensive information and personalized benefits statements. The IVRS is an automated self-service system you can access from a touch-tone telephone. Unlike the Web, the IVRS allows you to transfer to a benefits counselor for additional assistance. Both the Web (EBIS) and telephone (IVRS) automated systems are available 21 hours per day, seven days a week.

New hotel room plans for federal travelers

The General Services Administration has begun a new program involving federal workers traveling on business. The employee will be asked, if possible, to stay at hotels that agree to a specific number of rooms at discounted prices. Under the program, hotels agree to guarantee a block of rooms for federal travelers that is competitive with or lower than federal per diem rates. The standard rate for lodging is $55, but rates vary by location and season. Fourteen cities thus far are participating in the program. Timothy Burke, director of GSA's travel management policy division, pointed out the program will permit federal workers to continue using their common sense when making reservations. He said some employees may find less expensive alternatives to the contract hotel or may find that they can save time and taxi fares by seeking a more convenient place to stay.

New TSP record-keeping system postponed

WASHINGTON, D.C. (American Forces Press Service) — Federal Thrift Savings Plan (TSP) investors who are looking forward to the daily transactions promised by a new record keeping system will have to wait a little while longer.

Officials of the Federal Retirement Thrift Investment Board, which oversees TSP, announced that the new system will now debut in November instead of September, as previously reported.

In general, the new system will allow for daily account valuations and daily transaction processing. It also will report account balances in both shares and dollars, offer a greater number of withdrawal options and provide online service for loans and withdrawals.

Its debut is being delayed to ensure all its functions are fully tested in parallel with the current record keeping system. "Parallel testing," involves running both systems separately using the same, real data submissions from participants.

The testing has not been conducted because the several billion TSP investor records created since the plan started in 1987 took longer than expected to convert for the new system.

CFC campaign in full swing

The Tennessee Valley Combined Federal Campaign (CFC), which includes the Huntsville portion of SMDC, runs through Nov. 8.

"Caring for Communities" is again the slogan for the 2002 campaign.

This year's Tennessee Valley CFC goal has been set at $1,600,000. SMDC's (Huntsville) goal is $63,922. SMDC Huntsville has surpassed its goal for the past two years running.

An online silent auction is planned again this year in Huntsville and will run the last three weeks of the campaign, Oct. 21 – Nov. 8. It can be accessed at www.cfc-huntsville.org.

Military News

Army announces new 12-month stop loss policy

Assistant Secretary of the Army (Manpower and Reserve Affairs) Reginald J. Brown has approved a new 12-month stop loss policy in support of Operations Noble Eagle and Enduring Freedom. The 12-month stop loss policy will generally affect Active Army and Ready Reserve soldiers for no more than 12 months, even though their respective specialties or MOSs may continue to be subject to stop loss. Under this new policy, soldiers affected by stop loss would generally be allowed to request voluntary separation from the Army (to include retirement), to be effective 12 months from one of the following dates or under the following conditions (whichever applies): Expiration Term of Service (ETS); Separation Date (for enlisted soldiers not retirement eligible); End of Current Service Obligation Date (for officers and warrant officers not retirement eligible); or Retirement Eligible Soldiers.

Enlisted soldiers serving on an indefinite enlistment or officers not retirement eligible but who have completed their Active Duty Service Obligation and who request separation will be separated 12 months from the date they became subject to stop loss.

This decision affects more than 51,000 soldiers currently subject to stop loss. Personnel strength managers from all Army components will regulate separation dates to ensure there is no adverse impact on Army-wide readiness. For more on the new policy, see http://www.dtic.mil/armylink/news/Sep2002/r20020906r-02-053.html.

U.S. Army South headquarters to relocate

The Army announced the decision to relocate the headquarters of U.S. Army South (USARSO) from Fort Buchanan, Puerto Rico, to Fort Sam Houston, Texas. The move is expected to take place during fiscal year 2003.

The relocation is a result of an overall headquarters realignment assessment designed to achieve greater efficiencies and personnel savings throughout the Army. As part of the Army's realignment strategy, USARSO will become a major subordinate command of the U.S. Army Forces Command (FORSCOM), located at Fort McPherson, Ga., but will continue to serve as the Army component headquarters to U.S. Southern Command.

The re-designation of USARSO as a major subordinate command, with FORSCOM providing its administrative support, allows the Army to eliminate much of the USARSO headquarters overhead and reduce its strength from approximately 400 to fewer than 300 personnel.

The Army considered several locations as potential sites for USARSO. Fort Sam Houston was chosen because of its availability of facilities, its relative accessibility to U.S. Southern Command and Latin America, and its ability to provide garrison support to USARSO without significant augmentation or construction. The Army continues to assess the disposition of commands around the world as part of its overall stationing strategy in order to seize opportunities for greater efficiencies and cost savings.

Central Command not moving to Qatar

WASHINGTON, D.C. (American Forces Press Service) — U.S. Central Command is not moving to the Persian Gulf state of Qatar, as news reports have suggested.

Rather, a small portion of the combatant command will participate in a command post exercise called Internal Look '03 sometime in November, command officials said. Roughly 1,000 personnel will take part in the exercise, 600 from Central Command and 400 from subordinate commands.

Exercise Internal Look '03 will also test the standing deployable headquarters. The standing headquarters was one of the recommendations from the Quadrennial Defense Review released last year.

The exercise will last one week, CENTCOM officials said, but the deployment will last longer. "You have to allow for the advance party, set-up time and take-down time," one official said. He added that the long-standing exercise was first run in 1990.

Officials could not say who the exercise commander will be nor would they comment on whether other members of the Gulf Cooperation Council would participate.

Laser systems to help protect future warfighters

By Debra Valine
Editor, *The Eagle*

The 5th Space and Missile Defense Conference and Exhibition held Aug. 20-22 in Huntsville, Ala., brought together industry leaders to discuss missile defense technology and provided an opportunity to showcase new concepts.

One new concept making its conference debut was the Hybrid Electric High Mobility Multi-purpose Wheeled Vehicle (HMMWV) with the Solid State Laser weapon model attached.

The Solid State Laser program uses diode-pumped laser technology that will help protect future warfighters against threats such as unmanned aerial vehicles, rockets, artillery and mortars. In addition, this technology may support the Army's Future Combat System (FCS) survivability by defeating Anti-Tank Guided Missiles (ATGMs).

"By mounting the Solid State Laser on the Hybrid Electric HMMWV, the system is compact, lightweight and all-electric," said Chip Hardy, the deputy Solid State Laser program manager, in the U.S. Army Space and Missile Defense Command's (SMDC) Directed Energy Directorate. "The Hybrid Electric HMMWV is an effective platform and its diesel-fueled motor generator/battery combination provides a cost-effective power source for the Solid State Laser."

The Hybrid Electric HMMWV was developed jointly by the Defense Advanced Research Projects Agency and The Tank Automotive and Armaments Command. SMDC is leveraging the technology in the Solid State Laser program. "The Hybrid Electric HMMWV will provide an excellent vehicle for field testing of the SSL," Hardy said.

The Solid State Heat Capacity Laser (SSHCL) Testbed, developed jointly by the SMDC and Lawrence Livermore National Laboratory in Livermore, Calif., is a 10-kilowatt SSHCL that became operational at the High Energy Laser Systems Test Facility (HELSTF) on Aug. 30, 2001. "It is the first major product of the Solid State Laser program," Hardy said. "It is the highest average power Solid State Laser device traceable to military applications in the world."

The next major product for this program is a 100-Kw diode pumped SSHCL expected to be installed at HELSTF, White Sands Missile Range, N.M., in the fiscal year 2006/2007 timeframe.

Side view of hybrid HMMWV with Solid State Laser weapon model

HELSTF offers extensive capabilities and a robust infrastructure for testing and evaluating a wide array of laser technology programs and weapons. The facility has access to 3,200 square miles of restricted land area and 7,000 square miles of restricted airspace in which to conduct static and dynamic live fire, lethality, vulnerability and material interaction testing.

HELSTF is transforming its infrastructure to keep pace with Army Transformation. The prominent feature of this transformation is the development of a mobile High Energy Laser diagnostic suite to support development and operational testing and evaluation of the mobile high energy laser weapons in all relevant combat environments.

This mobile system will include precision 3-D tracking, atmospheric characterization, target signature analysis, data collection and recording devices, a return energy sensor and laser/target interaction analysis. In addition, HELSTF will also upgrade its fixed diagnostic instrumentation and develop a HEL operations monitoring system to support a variety of lasers that may test at HELSTF.

The SSHCL has been supported by a diverse team. The basic laser device was constructed by Lawrence Livermore National Laboratories in Livermore, Calif. To make the device requires a high specific electric power subsystem produced by PEI in Huntsville, Ala., and SAFT in Cockeysville, Md., which can supply vehicle mobility power and power to the laser device; to the laser diodes-cooler arrays being produced by Decade Optics in Albuquerque, N.M,/Armstrong Laser Technologies in Freeport, Pa.; near defect free GGG crystals being produced by Northrop Grumman Polyscientific in Charlotte, N.C.; and the thermal control subsystem being produced by General Atomics in San Diego, Calif.

In addition, various aspects of systems engineering have been done by Raytheon Corporation in El Segundo, Calif., Alpha Technology in Huntsville, Ala., and Mevatec Corporation also in Huntsville. Beam director design, analysis and support has been performed by Raytheon, Goodrich Aerospace in Albuquerque, N.M., and White Sands Missile Range near Las Cruces, N.M.

Army tightens re-enlistment window effective Oct. 1

ALEXANDRIA, Va. (Army News Service) — Active-duty soldiers will need to re-enlist or extend 12 to three months prior to their separation date, beginning Oct. 1.

The Army announced that it was reinstating this re-enlistment policy, which had been relaxed since October 2000. The purpose of the tighter re-enlistment window, personnel officials said, is to identify soldiers who desire unbroken service, and for the Army to program replacements for those who plan on returning to civilian status.

Many soldiers may be denied retention after Oct. 1, if they decide to wait it out. A tremendous amount of work processing exceptions to policy will be placed on leaders and counselors if the 12 to three-month re-enlistment window is not enforced.

Leaders are an integral part of the retention business and leaders up and down the ranks must ensure that all soldiers are counseled on the re-enlistment window and that they may be denied further retention when within three months of ETS.

Processing procedures for exceptions to the three-month cutoff will require a copy of the soldier's re-enlistment interviews from Department of the Army form 4591-R to validate that the soldier was counseled. Additionally, the exception will require a statement from the affected soldier with a reason he or she did not re-enlist within the 12 to three-month window and complete justification as to why exception should be approved.

Army Regulation 601-280 outlines in paragraphs 3-6 and 4-1e the re-enlistment window of three to 12 months.

The Army's success in recruiting and retention has postured the Army to once again reinforce that re-enlistment is a privilege, personnel officials said, and therefore requires soldiers to make their retention decisions earlier. Therefore, they are rescinding policy messages 01-02 and 01-03, dated Oct. 5, 2000 and Oct. 13, 2000.

Exceptions to the three-month window will be considered for meritorious cases only, officials said. The exception must be endorsed by the first general officer in the soldier's chain of command. Requests should be submitted to PERSCOM in accordance with paragraph 3-10 of AR 601-280.

(Editor's note: Information provided by PERSCOM PAO.)

Von Braun Complex going up

Framework already in place at building construction site

By Sandy Riebeling
Staff writer, *Redstone Rocket*

HUNTSVILLE, Ala. — The view overlooking the Von Braun Complex construction site changes by the hour these days.

"When we went to lunch, none of the steel for the building was up," said Jackie Campbell, office manager for Turner-Universal Construction Company. "Now look at it."

Across the dusty site, amid piles of rock, mounds of dirt, elevator pits and a maze of conduit and piping, workmen from C.P. Buckner Steel Erectors had several three-story steel columns and interconnecting beams already in place. In just a matter of minutes, two more columns were added to the structure that, when completed, will become the new home of the Space and Missile Defense Command (SMDC).

The complex will be built in three phases. The first, better known as the SMDC phase, includes two buildings — the central plant which will house the mail room and utilities for the complex, and the 200,100 square foot office building designed for a work force of about 1,000. Turner-Universal is the contractor for the $39 million design-build SMDC project.

"Things have gone really well since the ground breaking last summer," said Joey Skinner, civil engineer with the Master Planning Division and complex project manager representing Redstone. "We've had to do a lot of preparation to get to this point. One of the most important things was to upgrade the sewer system. Three million dollars of the project money was set aside just for that."

In August last year, an 18-inch sewer pipe was installed alongside portions of the existing sewer line between the site and the sewage treatment plant. Not only does it increase capacity but it also serves as an alternate line when maintenance or repairs need to be completed on the older system.

A 30-inch industrial water line crossing the site had to be relocated earlier this year and over Labor Day weekend, steam pipes that ran adjacent to the jogging path were moved away from the building site and buried.

"There's a 12-inch gas line that still needs to be relocated," Skinner said. "We'll have to coordinate the shutdown and tie in with NASA because they use a lot of gas. But I don't anticipate any problems. Our contractors have done a great job working with us."

The concrete contractors are just one example of that teamwork. To avoid affecting traffic at peak drive times on the Arsenal, the convoy of 20 or more concrete trucks necessary for a large pour come through the gates between 3-6 a.m. About one large pour per week is done.

"And I have to give credit to the guys at the Corps of Engineers (North Alabama Area Office) for the work they do," Skinner said. "They assist in support and inspection for the design and construction, which means reviewing drawings from a technical standpoint, making sure good engineering practices are used and good workmanship. They're the guys out there at 3 a.m. when the concrete trucks come in, making sure it's done right. They meet with us and the contractors. We all work together as a team. It's the only way it can be done."

And this is just the beginning. The complex was master planned for three buildings, a total of about 700,000 square feet. The nearby Sparkman Center, home of the U.S. Army Aviation and Missile Command, is a little more than 1 million square feet.

The SMDC phase includes the central plant designed to expand with each new phase. One of the next two phases will include a 400-seat auditorium and the other, a cafeteria for 600. But even more phases are expected.

"Although the funding hasn't come through, the two organizations we think will build in the complex are PEO Air and Missile Defense and the Missile Defense Agency," Skinner said. "Due to 9/11 and the government's push to get personnel out of leased space, more organizations want to come on the post. We really don't have the space for them right now. The only viable alternative is new construction."

The next contract will have to master plan for at least five buildings, according to Skinner.

About 20 percent of the SMDC phase is complete. It is expected to be ready for the customer in January '04.

The events of 9/11 had no real impact on the design or construction of the project. The only security change involved parking. The minimum distance required between the building and parking spaces fluctuates, depending on the threat condition in effect. It can be as close as 80 feet for handicap spaces and up to 150 feet minimum at Threatcon Delta.

(Photo by Sandy Riebeling)

Workers from C.P. Buckner Steel Erectors began framework on the Space and Missile Defense Command building in mid-September, the first phase of the Von Braun Complex, located off Martin Road, west of Bldg. 5250 on Redstone Arsenal, Ala.

Col. David W. Shaffer accepts command of Army Space Forces, as LTG Joseph M. Cosumano Jr., the commanding general of both Army Space and the U.S. Army Space and Missile Defense Commands, passes the unit colors during a change of command ceremony at Peterson Air Force Base.

Shaffer takes command of Army Space Forces

PETERSON AIR FORCE BASE, Colo. – During a recent ceremony, the command of Army Space Forces passed from Col. William J. Partridge to Col. David W. Shaffer. The unit is part of U.S. Army Space Command.

LTG Joseph M. Cosumano Jr. — commanding general of both Army Space and the U.S. Army Space and Missile Defense Commands — presided at the occasion, formally transferring authority with the traditional "passing of the flag."

Cosumano praised the outgoing and incoming commanders, and emphasized the speed and precision with which the outgoing commander, Partridge, had transformed his unit from a peacetime to wartime mission after the events of Sept. 11, 2001.

"As we stand here with the serenity of the beautiful Rockies as a backdrop, it seems hard to think of us as a nation at war, but we must never forget that we are," Cosumano said. "Our soldiers are deployed globally in support of that war, helping the warfighter with the most up-to-date and sophisticated Space-gained information, and Col. Partridge is the man who made that happen. The impact of his leadership on the transition from peace to war is immeasurable."

Partridge, in his farewell address, praised the intelligence and skills of the soldiers who had served with him during his command.

"There can be no greater honor than to command young men and women who serve to the highest standard," he said.

The incoming commander, Shaffer, promised to uphold those standards.

"I'm honored to be a part of this great Space community, and I look forward to the expansion of the utilization of Space across the Army."

Army Space Forces is composed of three battalions, which provide day-to-day space support to the operational Army. Army Space soldiers are deployed in Kuwait, Afghanistan, Korea and other points on the globe.

Low Cost Interceptor seeking ways to balance cost per kill

By Debra Valine
Editor, *The Eagle*

Right now, the United States is pursuing highly effective weapon systems to better its defense against cruise missiles and air-breathing threats launched against it. Current Air and Missile Defense systems being developed such as the Army PATRIOT PAC-3 — while highly effective — are very expensive.

The U.S. Army Space and Missile Defense Command, Office of Technical Integration and Interoperability, in Huntsville, Ala., is pursuing development of a Low Cost Interceptor (LCI) missile that can be used to more effectively combat unsophisticated low-cost threats launched toward U.S. forces or their allies.

The LCI Program has conducted system-engineering analysis and has developed a preliminary system design for a proof-of-concept interceptor. This program has evaluated existing and maturing technologies in propulsion, seekers, missile guidance and lethality to prove the feasibility of developing a long-range interceptor that will cost less than $100,000 each to manufacture. This Low Cost Interceptor will provide a cost-effective solution to the proliferation of low-cost cruise missile and other air-breathing threats.

"We have completed the preliminary design review and are currently selecting subcontractors in the areas of propulsion and control actuation systems," said David Tilson, LCI program manager. "And we have Northrop Grumman under contract for the seeker."

The next step is developing an engineering development unit, a full-scale missile, to integrate hardware and make sure everything fits together properly.

"We are also in the process of developing a hardware-in-the-loop capability," said Brian Patrick, LCI system engineer. "We will take actual flight avionics and seeker hardware and software and integrate them with simulations to test and be sure that when we get to the test range to fly this missile, we know exactly what the interceptor will do. We are working with the Aviation and Missile Command's Missile Research, Development and Engineering Center on this."

The Low Cost Interceptor program has been able to work with Eglin Air Force Base in Florida to obtain warheads to be used in the testing phase. Several of these warheads will be used in arena tests to validate the interceptor's lethality concept. Warhead testing will be conducted at the Redstone Technical Test Center on Redstone Arsenal, Ala.

"Today's air defense systems, although very capable, are very expensive," Tilson said. "These systems go after the full spectrum of the threat, where LCI will only go for the unsophisticated cruise missiles, unmanned aerial vehicles, and fixed and rotary wing aircraft. So, the low cost interceptor has carved out that portion of the threat set to balance the cost per kill and complement the more complex air defense systems like Patriot 3 and the Surface Launched Missile System (SLAMRAAM), and save our silver bullets for the more sophisticated threats."

Air show display enables Army Space education

By Staff Sgt. Cameron Hall
Unit Reporter

FORT DETRICK, Md. — In an effort to educate more of the community about Army Space Command, members of A Company, 1st Satellite Control Battalion, spent part of a weekend manning an information and display booth at a local air show.

The Frederick County air show draws thousands of people to the airport, located just 2 ½ miles from the post. A Company's Sgt. 1st Class James Dinkins saw the ready-made audience and appropriate "air show" theme as a great opportunity to tell more of the public about the Army's mission in Space.

Armed with a booth provided by Army Space, some eye catching satellite imagery, framed photos of Army Astronauts and a variety of stickers bearing the Brigade motto of "First in Space," the soldiers and NCOs who manned the booth had plenty to talk about with the public.

The Space educators' first line was often to ask curious onlookers what they knew about Army Space Command. Most people knew little, and many responses were the typical incredulous, "What's the Army doing in Space? I thought they were ground forces" sort of reply. But all were interested in knowing more.

The quest for knowledge led air show attendees to find out about the four primary missions of Army Space: satellite communications, satellite imagery, early launch detection and warning, and the Army Astronaut program. When it came to talking about the communications mission, 1st SATCON's bread and butter, the soldier educators were able to refer to a poster of the DSCS III satellite to let them know exactly what Army Space's antennas were pointing at and give them an idea of the significance of the mission.

The attendees learned about the other Operations Centers around the world and tried to fathom the great distance Defense Satellite Communications Systems satellites are from the Earth. They learned about the intensive training soldiers who staff the Operations Centers undergo to meet the requirements of the Military Occupational Specialty — Satellite Equipment Operator/Maintainer and Satellite Systems Network Coordinator.

One of the NCOs manning the booth, Sgt. Jerod Hall, said, " I met a lot of interesting people and I think many of them came away with a good understanding of what we do. We actually had several young people ask about how to sign up for what we do! We very happily told them where to find the recruiting booth!"

It was a hot day, but with the opportunity both to enjoy an air show and inform the public about the great job the Army does in Space — it was time well spent.

Dinkins said, "This was a great opportunity to come out and reach the public, teaching them that the Army does have an important mission in space, as well as space based assets. We're much more than tanks and guns now."

(Photo by Rhonda Paige)

Here he comes

Miss America 2002, Katie Harman, crowns 1st Lt. Young Yauger, staff nurse, Pediatrics Dept., Walter Reed Army Medical Center, during her a visit to the medical center's Comprehensive Breast Center (CBCP). Harman, whose platform is Breast Cancer in America: Caring Community-by-Community, was hosted by Dr. Craig Shriver, director CBCP; Lydia Cosumano, CBCP volunteer and spouse of LTG Joseph M. Cosumano Jr., commanding general, U.S. Army Space and Missile Defense Command. Lydia Cosumano, breast-cancer survivor and key volunteer at the CBCP, coordinated Harman's visit.

Strategic, Space Commands merge

By Petty Officer 1st Class Sonja Chambers
American Forces Press Service

OFFUTT AIR FORCE BASE, Neb. – Two U.S. unified commands merged Oct. 1 to form a new global command with global responsibilities in a new strategic environment.

During an afternoon ceremony , a new U.S. Strategic Command was established through the merger with U.S. Space Command and tasked with space operations, information operations, computer network operations, and strategic defense and attack missions.

During the ceremony, Adm. James O. Ellis Jr., U.S. Strategic Command chief, cased the colors and stood down the old command. Air Force Gen. Richard B. Myers, chairman of the Joint Chiefs of Staff, then activated the new command, incorporating portions of U.S. Space Command. That command, based at Peterson AFB, Colo., ceased to exist.

The new STRATCOM represents the transformation that provides a single commander, with a global perspective, to support the President and the Secretary of Defense, said Myers. With a B-2 Spirit stealth bomber, one of the most potent reminders of the nation's deterrence strength, Ellis took command of the new STRATCOM.

"This new command is going to have all the responsibilities of its predecessors, but an entirely new mission focus, greatly expanded forces and you might even say several infinite areas of responsibility," Myers said.

"United States Strategic Command provides a single warfighting combatant command with a global perspective, focused on exploiting the strong and growing synergy between the domain of space and strategic capabilities," Ellis said.

The new STRATCOM will continue to be responsible for providing strategic deterrence for the nation, but now, it will also assume space missions and responsibilities.

"Here today you begin to affect a real transformation," said Deputy Defense Secretary Paul Wolfowitz. "It is a transformation that will improve our command and control, our intelligence and our planning."

The command exercises combatant command and control of assigned task forces and service components that support the command's mission. During day-to-day operations, service component commanders retain primary responsibility for maintaining the readiness of USSTRATCOM forces and performing their assigned functions.

Organizations include the following task force and service elements: aerial refueling, airborne communications, Army Space forces, ballistic missile submarines, bomber and reconnaissance aircraft, Joint Task Force – Computer Network Operations, the Joint Information Operations Center, land-based intercontinental ballistic missiles, the Naval Network and Space Operations Command, and Space Air Force.

Army Space Support Company gets new commander

COLORADO SPRINGS, Colo. — Army Space Command's 1st Space Battalion Army Space Support Company received a new commander in August.

(Photo by Budd H. Butcher)

1st Space Battalion, Army Space Support Team incoming commander Maj. Dave Hotop receives the guidon from battalion commander Lt. Col. Scott Netherland at a change of command ceremony Aug. 16.

The change of command ceremony hailed incoming commander Maj. David Hotop as he assumed the "reins" from outgoing commander Maj. (P) Eric Henderson.

Lt. Col. Scott Netherland, commander, 1st Space Battalion, hosted the ceremony and conveyed his thoughts on Henderson's command of the company.

"Maj. Henderson is an outstanding officer who's extremely dedicated to his unit and the accomplishments of the Army Space Support Company mission. In his 22 months of command, Eric has vastly matured the standardization of the Army Space Support Company," said Netherland.

"In addition to the Army Space Support Company missions for Operation Enduring Freedom and Ulni Focus Lens, the companies have been the go-to place to man the main control elements of the Space Electronic Warfare Detachment — now in its final stages of a second deployment in support of Central Command Operations and the CENTCOM area of responsibility."

Henderson will depart Colorado Springs for new duties at Fort Leavenworth, Kan.

Upon introducing Hotop, Netherland remarked on his previous work within the command and his role as a reservist.

"Maj. Dave Hotop adds a unique aspect to the team given the fact that he is a reserve component officer activated for only a year, but who volunteered to stay for another year of active duty. He is representative of all the reserve component and National Guard soldiers who have come on active duty to accomplish critical missions for this command," Netherland said. "I have all the confidence that he will continue to challenge the Space Warriors to excel in every task."

New command shifts thinking on national defense

By Jim Garamone
American Forces Press Service

WASHINGTON, D.C. — Establishing U.S. Northern Command Oct. 1 shifted the way the U.S. military thinks about defending the United States, DoD's point man on homeland security matters said.

Peter Verga, the special assistant to the secretary of defense for homeland security, spoke during a speech at the Heritage Foundation Sept. 26 about the mission of the new command and some of the effects NORTHCOM's rollout will have.

He said starting the command is important because it places the defense of the United States under one combatant command. This ensures unity of effort with supporting commands and other combatant commanders. "When we dial 911 on the telephone, we do not expect to have to deal with nine different law enforcement agencies," Verga said. "We expect to deal with one person who will energize the necessary agencies and response."

Verga differentiated between homeland security and homeland defense. He said homeland security is a concerted national effort to prevent terrorist attacks within the United States, reduce the United States' vulnerability to terrorism, and minimize damage and assist in recovery from terrorist attacks that do occur.

DoD uses the term homeland defense to refer to protecting U.S. territory, population and critical defense infrastructure against external threats and aggression.

This is important because under the rubric of homeland security DoD acts in support of a lead federal agency. In homeland defense, DoD takes the lead and is supported by other agencies.

He said NORTHCOM's chief will act just as any other combatant commander – with orders from the president transmitted through the defense secretary. He will assume command in three instances. The first is the most obvious: In extraordinary circumstances – such as another Sept. 11 attack – NORTHCOM will act. This includes conducting operations like Combat Air Patrols and Maritime Defense Operations, and in cases where normal measures are insufficient to carry out federal functions.

The command will also act at the request of civil authorities under emergency circumstances, "such as responding to a terrorist attack, floods, hurricanes and such."

Finally, the command will act under temporary circumstances. An example of this is the support the department gave to the Olympic effort in Salt Lake City.

Verga said the time is right for a combatant command for North America because the threat has changed. Sixty years of defending America by deterring aggressors overseas has ended. "Sept. 11 taught us that our people and territory are vulnerable to attack," he said.

The command gives undivided focus to the mission. For the first time, responsibility for defending the United States will be assigned to a single dedicated unified command, Verga said.

The command will be able to plan, coordinate, exercise command and control of, and supervise the execution of federal military responses to external threats and aggression. This applies as well to emergency and extraordinary domestic circumstances where the secretary of defense has approved military support.

Verga cautioned that the Oct. 1 date does not mean a fully developed capability. The new command will have an initial operating capability on that date. Plans call for the command to be fully operational by Oct. 1, 2003.

Army Space, SMDC contribute to AER Campaign

COLORADO SPRINGS, Colo. — Army Space Command received an award for its contribution of 102 percent of the unit goal during the 2002 AER fund campaign. Receiving the honor on behalf of the command was Col. William J. Partridge, former commander of Army Space Forces, along with Command Sgt. Maj. Reginald Ficklin.

According to Patricia Randle, financial readiness program manager, Fort Carson Army Community Services, a total of $81,000 was collected locally during this year's campaign, which was conducted from March 15 through May 31.

The Secretary of War established the Army Emergency Relief fund in 1942. Since that time AER has helped more than 2.8 million soldiers and their families overcome financial emergencies during the last 60 years.

Since its birth, AER has always been where soldiers are stationed when they needed help. Though many things have changed over the years, one thing remains constant — AER's commitment to the long-standing principle of caring for the soldier's financial emergency with integrity and professionalism.

Fort Carson garrison commander Col. Simeon Trombitas presented this year's awards at the Elkhorn Conference Center. The presentation followed a campaign overview given by this year's campaign coordinator Capt. Michael Sowa.

HUNTSVILLE, Ala. — Through the efforts of soldiers and civilians alike, the Redstone Arsenal community raised $102,861, eclipsing the $50,000 goal and generously topping last year's contribution of just over $79,000.

The U.S. Army Space and Missile Defense Command offices in Huntsville, Ala., are part of Redstone Arsenal's AER campaign.

Kristi Foster, Army Emergency Relief officer, used words like "outstanding" and "stellar" to describe the March 1 through May 15 campaign.

"The key representatives got out there and talked to the people about the purpose of AER," she said, speculating on why this year was so successful. "And Sept. 11 still has something to do with it. We're very grateful for the support of the community for coming through so big this year."

There wasn't much the Redstone community wouldn't do and it showed.

"Redstone has gone above and beyond," Foster said. "They've raised the bar and I'm sure it will affect our goal for next year. I'm also sure the community will respond."

Last year more than $320,000 was distributed through AER in emergency grants and no-interest loans to soldiers, retirees and their families at Redstone and in North Alabama.

Awards/Promotions

Special Act Awards

Carol Alkhafi, ARSPACE Contracting Division
Kathleen Anderson, Technical Center, Directed Energy Directorate
Barbara A. Cantrell, Technical Center, Test and Evaluation Directorate
Frederick W. Clarke, Technical Center, Sensors Directorate
Sharon Crawford, Technical Center, Associate Director, Technology
Melisa H. Gilbert, Technical Center
Janice S. Jean, Technical Center, Sensors Directorate
Brenda K. Jones, Technical Center, Information Science and Technology Directorate
Linda S. Oellig, ARSPACE, G1, Personnel
Brenda K. Partain, Technical Center
Diane D. Patch, Technical Center, Sensors Directorate
Andrea A. Weathington, Technical Center, Space Technology Directorate
Belinda J. Williams, PARC/CAMO, Branch T

Performance Awards

Beverly B. Atkinson, Technical Center, Test and Evaluation Directorate
David C. Bissell, Technical Center, Systems Directorate
Sandra P. Blue, Technical Center, Systems Directorate
Daniel J. Bradley, Technical Center, Kinetic Energy Interceptor Directorate
James M. Butler, Technical Center, Test and Evaluation Directorate
Ramon Campos, Technical Center, Systems Directorate
Vicky J. Cody, Technical Center, Information Science and Technology Directorate
James C. Davenport, ARSPACE, Regional SATCOM Support Center-CONUS
Max M. Delgado, ARSPACE, G6, Communications
William L. Dobbs, Office of Technical Integration and Interoperability
Scott A. Ervin, ARSPACE, Regional SATCOM Support Center-Europe
Connie S. Faulkner, ARSPACE, Command Counsel Office
William G. Galvan, ARSPACE, Regional SATCOM Support Center-Europe
Rodney L. Gipe, FDIC, Combat Development
Robert L. Howard, ARSPACE, Command Group
Keith C. Kerkhoff, ARSPACE, Plans Division
Kurt G. Lobeck, ARSPACE, Plans Division
Mark F. McClellan, Technical Center, Information Science and Technology Directorate
William L. McCormick, Technical Center, Space Technology Directorate
Terrance E. Nelson, FDIC, West
Sandra C. Porter, ARSPACE, Office of Chief of Staff
Eric M. Tomlin, Technical Center, Systems Directorate
Catherine R. Weywadt, Technical Center, Space Technology Directorate

On-The-Spot Cash Awards

Mary Ellen Benson, Technical Center, Advanced Technology Directorate
Giselle N. Bodin, Public Affairs Office
Diana L. Cochran, Technical Center, Joint Center for Technology Integration
Cassandra C. Gilmore, ARSPACE, Resource Management Directorate
Darcellena K. Grindrod, Technical Center, Kinetic Energy Interceptor Directorate
Stewart V. Horn, Technical Center, Test and Evaluation Directorate
Ralph C. Jones, Technical Center, Systems Directorate
Judy H. Krawcyk, Resource Management, Program and Policy Division
Loretta L. Light, Technical Center, Joint Center for Test and Evaluation
Susan McRae McCulley, Technical Center, Systems Directorate
Stephen A. McKay, Technical Center, Information Science and Technology Directorate
Birtha H. Otey, Technical Center, Directed Energy Directorate
Janet L. Schwarzbart, ARSPACE, Contracting Division
William L. Strickland, Technical Center, Sensors Directorate
Susan D. Tidwell, Technical Center, Kinetic Energy Interceptor Directorate
Patrick A. Tilley, Technical Center, Data Analysis and Exploitation Directorate
Omega M. Tyson, Civilian Personnel Division
Debra D. Valine, Public Affairs Office
Dorothy K. White, Public Affairs Office

Time-Off Awards

Gordon M. Baxendale, ARSPACE, G3, Operations

Quality Step Increase

James R. Alexander, Technical Center, Directed Energy Directorate
Terrance J. Bauer, Technical Center, Joint Center for Test and Evaluation
Penny J. Cash, Technical Center, Information Science and Technology Directorate
Douglas H. Ennis, Technical Center, Joint Center for Technology Integration
David A. Hayes, Technical Center, Sensors Directorate
Bernard L. Kerstiens, Technical Center, Space Technology Directorate
Willard L. Kistler, Technical Center, Directed Energy Directorate
Royce G. Ogburn, Technical Center, Kinetic Energy Interceptor Directorate
Noel J. Paschal, Technical Center, Kinetic Energy Interceptor Directorate
Walter L. Trammell, Office of Technical Integration and Interoperability

Command Award for Civilian Service

Paul J. Fusco, Engineering Division, Operations Branch, Wake Island
Victor J. Lewis, ARSPACE
Kurt Lohmann, ARSPACE, Plans Division
William R. Mull, Engineering Division, Operations Branch
Sandra C. Porter, ARSPACE, Office of Chief of Staff
Christopher G. Robertson, ARSPACE

Certificate of Appreciation

Donald C. Reesman, PARC/CAMO, Branch K

Civilian Promotions

Patricia A. Duggan, GS-12, PARC/CAMO, Huntsville

Fiscal Year 2002 in Review

(Editor's note: The following highlights from fiscal year 2002 are excerpts from articles that ran in *The Eagle*.)

Maj. Gen. Willie B. Nance Jr., far right, joins other launch observers in celebrating the third successful intercept for the Ground-based Midcourse Defense (GMD) program, formerly known as National Missile Defense.

November 2001

Fielding begins for Grenadier BRAT

Fielding of Grenadier BRAT (Beyond line-of-sight Reporting and Tracking) began in October 2001 with the 5th Special Forces Group in Kuwait, followed by units in Bosnia, Kosovo, Germany and Italy. I Corps, XVIII Airborne Corps, U.S. Army South, and the 25th Infantry Division followed shortly afterward. Their experience with the initial Grenadier BRAT fielding enhanced an eventual Army-wide Grenadier BRAT device.

The Grenadier BRAT system is a blue-force tracking tool being fielded by the U.S. Army Space and Missile Defense Command Army Space Program Office. Beyond line-of-sight reporting and tracking gives commanders the ability to track friendly forces in near-real time deep on the battlefield — even if line-of-sight communications with those forces are not possible.

December 2001

We have an intercept … IFT-7 is a hit

U.S. ARMY KWAJALEIN ATOLL — On Dec. 5, 2001, following three 24-hour weather delays, Integrated Flight Test-7 was a go both on Kwajalein and Vandenberg Air Force Base in California. The mission was a major step in the Ballistic Missile Defense Organization's technology research and development effort for missile defense.

The target vehicle lifted off from Vandenberg Air Force Base. About 20 minutes after the target launched, a prototype interceptor missile carrying a prototype exoatmospheric kill vehicle was launched from Meck Island. Ten minutes later it intercepted the target warhead at an altitude of approximately 140 miles during the midcourse phase of the target warhead's flight.

This was the fifth intercept test of the Midcourse Defense Segment research and development program. The first, Oct. 3, 1999, resulted in the successful intercept of a ballistic missile target. The second test, Jan. 19, 2000, did not achieve an intercept due to a clogged cooling pipe on the EKV, but did successfully test the integrated system of elements. IFT-5, July 8, 2000, did not achieve an intercept due to the failure of the EKV to separate from the booster rocket, but a year later, IFT-6 successfully achieved intercept, meeting most test objectives, and boosting confidence in the program and the system.

On March 18, 2002, IFT-8 scored the third straight intercept for the Ground-based Midcourse Defense program.

With an array of highly sophisticated radar, telemetry and optical sensors located far from population centers and air and sea routes, U.S. Army Kwajalein's outstanding team of scientists, technicians and support personnel make the Reagan Test Site a unique and unparalleled facility for successful missile testing.

The U.S. Army Space and Missile Defense Command provided its Future Operational Capability-Tactical Operations Center (FOC-TOC) for the April Joint Combat Identification Evaluation Team exercise in Mississippi. The FOC-TOC provides the framework for close air support.

Netherland to command 1st Space Battalion

COLORADAO SPRINGS, Colo. — Lt. Col. Scott F. Netherland assumed command of the 1st Space Battalion Nov. 8 in Colorado Springs, Colo. Netherland had been the chief of operations and training, G-3, at Army Space Command. He also was responsible for standing up the Crisis Action Team for Army Space Command during the events of Sept. 11, 2001. He replaced Lt. Col. Timothy R. Coffin, whose follow-on assignment was in Washington, D.C., as the subject matter expert on Army Space Operations in support of the Army's Objective Force Task Force.

The 1st Space Battalion's activation on Dec. 15, 1999, signified an important commitment by the Army to fully embrace space operations as a core competency for the Army. The battalion was formed to care for soldiers and to provide an operational headquarters for command and control of the Army space forces.

The battalion accomplishes this mission through the Army Space Support Company with the Army Space Support Teams, the Theater Missile Warning Company through the Joint Tactical Ground Stations, and a Headquarters Company. In April 2001, the battalion expanded its mission to include conducting operations with the addition of the Space Electronic Warfare Detachment as a subordinate unit.

March 2002

SMDC Technical Center organizes for the future

HUNTSVILLE, Ala. — The U.S. Army Space and Missile Defense Command Technical Center — a fee-for-service organization — officially realigned to make the organization more customer friendly. The Technical Center works in a competitive world, and the realignment puts it in a better line to be more competitive.

Fiscal Year 2002 in Review

Guardsmen discuss possible future missile defense operations in the context of current readiness levels during Battle Planning Exercise 02-1.

One of the major organizational changes was increasing the number of directorates from five to nine, adding two Joint Centers and an operations staff. The new structure enables the Technical Center to be more flexible, and to respond more rapidly to new programs and marketing opportunities. The establishment of the Technical Center Management Council was a revolutionary way of doing business for the Army.

Command hails new chief scientist

ARLINGTON, Va. — Dr. Hank Dubin, the U.S. Army Space and Missile Defense Command's new chief scientist, arrived at the command's headquarters in January. Prior to his assignment, Dubin was serving in two capacities. In 1999 he became the director, Assessment and Evaulation for the Office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology). In 2001, he also became the acting deputy Assistant Secretary of the Army for Chemical Demilitarization.

Army astronaut makes fourth shuttle flight

COLORADO SPRINGS, Colo. — When the Space Shuttle *Columbia* landed March 12, 2002, Army astronaut Lt. Col. Nancy Currie completed her fourth mission as a NASA astronaut logging 999 hours (41.5 days) in space.

Currie served dual roles aboard *Columbia* (STS-109) as the flight engineer and controller of the shuttle's robotic arm. *Columbia's* mission was to service the Hubble Space Telescope and upgrade its capabilities. The crew replaced the Faint Object Camera with the Advanced Camera for Surveys, replaced a gyroscope to help move the telescope from target to target and installed two new powerful solar arrays and a new controller to distribute that power throughout the observatory.

Currie's role as the shuttle's robotic arm operator was critical to setting up the success of the mission. After the shuttle rendezvoused with the Hubble, Currie captured the telescope using the robotic arm. She then used the robotic arm during five space walks to help move equipment and astronauts.

April 2002

Exercise builds faith, experience

JOINT NATIONAL INTEGRATION CENTER, Colo. — More than 180 active duty and National Guard military, government civilian and contractor personnel participated in Battle Planning Exercise (BPE) 02-1 at the Missile Defense Agency's Joint National Integration Center.

BPEx 02-1 was the 12th in a series of exercises being held to refine the battle management command and control system being developed for the nation's ballistic missile defense system. The Ground-based Midcourse Defense Battle Manager Command, Control and Communication (GBMC3) Mission Integration Element and the U.S. Army Space Command organized and executed the exercise.

The exercise familiarized warfighters with the display screens, behavior and concepts associated with the new GBMC3 software, and exercised draft joint warfighter crew procedures to help the Army Space Command and the U.S. Space Command update concepts of operation for the ballistic missile defense of North America.

Second FA40 course graduates

COLORADO SPRINGS, Colo. — Fifteen Army officers graduated March 8 as fully trained Functional Area 40 (FA40) Space Operations officers, making them the second class of the elite specialty. This is the first group of Space officers to graduate from the course since the attacks of Sept. 11, 2001.

The seven-week course equips graduates with the tools and knowledge to provide commanders guidance on conducting space operations in support of the mission. Officers study orbitology, satellite communications, Space-based navigations and intelligence gathering to include surveillance and negation of the same opposing forces.

Lt. Col. Michael Yowell, commander of the 193rd Space Support Battalion, and Maj. Joan E. Rousseau, U.S. Space Command, wargame during the final Command Post Exercise for the Space Operations Officer Qualification Course.

Astronaut Nancy Currie prior to the STS-109 launch.

Fiscal Year 2002 in Review

The U.S. Army Space and Missile Defense Command's Force Development and Integration Center – West, in Colorado Springs, Colo., designed and instructs the course.

SMDC holds first-ever Audie Murphy board

ARLINGTON, Va. — Four noncommissioned officers from the U.S. Army Space and Missile Defense Command (SMDC) were inducted into the Sgt. Audie Murphy Club in March. It was the first Sgt. Audie Murphy Club board held by SMDC.

Inducted into the club were Sgt. 1st Class Earla Reddock, SMDC Inspector General Office; Sgt. 1st Class Phillip Tomlin, SMDC Personnel Directorate; Staff Sgt. Darrick Noah, E Co., 1st Satellite Control Battalion; and Staff Sgt. Devon Roy, Joint Tactical Ground Station Europe, 1st Space Battalion.

The Sgt. Audie Murphy Club, which originated at Fort Hood, Texas, in 1986, is named after one of the Army's most outstanding NCOs, the late Sgt. Audie Murphy. NCOs who demonstrate the same performance, inherent leadership qualities and abilities that Murphy exemplified as a soldier are eligible for induction into the club.

Audie Murphy served with the 3rd Infantry Division for three years during World War II, and received 33 medals and awards for heroism above and beyond the call of duty. He is considered the most decorated soldier in U.S. Army history.

May 2002

Army Space soldiers come home

COLORADO SPRINGS, Colo. — U.S. Army Space Command soldiers returned home from a six-month deployment with Operation Enduring Freedom in April.

The five-person team from the Space Electronic Warfare Detachment, 1st Space Battalion included Maj. Christopher Baker; Capt. Melissa M. Meagher; 1st Lt. Daryl D. Breitbach, Chief Warrant Officer Jimmy Harrelson; and Sgt. 1st Class Robert A. Miller.

National Guard Space Support Team deploys

A team of National Guard Space operators deployed May 8 on a mission to replace a similar team in Kuwait. This rotational deployment was significant for both the National Guard and Army Space Command, as this movement of an Army Space Support Team from the 193rd Space Support Battalion, Colorado Army National Guard, is a first for the reserve component.

The deploying team's mission revolved around integrating satellite-enhanced capabilities into daily military operations. The areas of communication, navigation, intelligence, surveillance, reconnaissance, environmental monitoring and missile warning operations are improved exponentially with the assistance of satellites.

Northern Command to debut in October

WASHINGTON, D.C. — It was announced in April 2002, that Defense officials had established the U.S. Northern Command as part of the changes in the Unified Command Plan. U.S. Air Force Gen. Ralph E. Eberhart was selected as its commander.

The new command stood up Oct. 1 at Peterson Air Force Base in Colorado Springs, Colo. The NORTHCOM commander is responsible for homeland defense and serves as head of the North American Aerospace Defense Command (NORAD), a U.S.-Canada command. NORTHCOM's area of operations includes the United States, Canada, Mexico, parts of the Caribbean and the contiguous waters in the Atlantic and Pacific oceans.

June 2002

Ahlborn, Orndoff named SMDC's NCO, Soldier of the Year

Staff Sgt. Charles Ahlborn, C Company, 1st Satellite Control Battalion, and Spc. Robert Orndoff, HHC, Army Space Command, on June 7 were named U.S. Army Space and Missile Defense Command's NCO and Soldier of the Year. Ahlborn also was the European Region NCO of the Year; Orndoff was the Western Region Soldier of the Year.

Ahlborn competed against three other NCOs while Orndoff faced competition from two other soldiers.

Ahlborn and Orndoff will compete in the 2003 NCO and Soldier of the Year Board at the Department of the Army level.

Staff Sgt. Charles Ahlborn, SMDC NCO of the Year

Spc. Robert Orndoff, SMDC Soldier of the Year

Army Space Command celebrates 14 years

U.S. Army Space Command celebrated its 14th anniversary April 12 with a military ball.

Although Army Space Command has an official "birth year" of 1988, the Army's connection to Space can be traced back to World War II with the establishment of the Ordnance Rocket Branch in 1943 to manage the development of rockets.

The branch's efforts received a huge push with the surrender of top German rocket scientists, including the famous Wernher Von Braun, to the Army in 1945.

Deployed Space Command unit celebrates Army birthday with a desert run

The 193rd Space Support Battalion Space Support Team, mobilized in support of Operation Enduring Freedom and the first National Guard unit to deploy from Army Space Command, poses for the camera while on duty in Kuwait. From left to right, top row: Capt. Jason Held, Staff Sgt. David Garbus, Maj. Mathew Nowak, Staff Sgt. James Dunlap. Bottom row: Sgt. 1st Class Howard Caraway, and 1st Lt. Angie Tofflemeyer.

CAMP DOHA, Kuwait — Deployed to Kuwait in support of the 3rd Army, the 193rd Space Support Battalion Space Support Team — the first National Guard unit to deploy from Army Space Command – celebrated the 227th birthday of the nation's Army with a good old-fashioned Army run. In the Kuwaiti desert. Four miles. Serious sweat.

An Army Space soldier who participated in the run, Capt. Jason Held, said, "It made sense on an Army level. Initially, there were of course people who thought the run concept to be 'mandatory fun,' but the way the general put it, we were honoring our comrades in 227 years of Army history in an Army fashion."

Literally thousands of people participated. Every soldier on the huge post joined the massive formation. But runners were not confined to just the American variety. Every military person on post, of whatever nationality, was invited, and hundreds ran in the spirit of international camaraderie. Many civilians also volunteered to sweat alongside their Army colleagues.

"It was good to be part of something so big," said another deployed 193rd soldier, Staff Sgt. David Garbus. "We're a small team, but the mission was big, and the event that day, the run, was in support of something even bigger, the Army."

Fiscal Year 2002 in Review

Construction begins on new testbed complex in Alaska

Construction began on a new missile testbed complex at Fort Greely, Alaska, with a ground-breaking ceremony in June.

Fort Greely falls under the U.S. Army Space and Missile Defense Command's new Test and Evaluation Center in Huntsville, Ala.

The testbed complex will include missile silos, as well as test and command structures being built by the U.S. Army Corps of Engineers to support the Ground-based Midcourse Defense program. The Missile Defense Agency's Ground-based Midcourse Defense will operate the testbed complex through a contract with the Boeing Company.

The SMDC commander assumed the role of senior mission commander of Fort Greely on Sept. 30 with that role being further defined under the new Transformation of Installation Management. Fort Greely is near Delta Junction, Alaska, about 100 miles southeast of Fairbanks.

CG presents 2002 Quality Awards

The U.S. Army Kwajalein Atoll (USAKA)/Reagan Test Site won first place, received the Commander's Quality Award and received $75,000 for their effort. The Battle Lab placed second winning the Chief of Staff Quality Award and $50,000. The Technical Center won the Quality Merit Award and $25,000.

Each year the commanding general presents the Quality Awards in the form of trophies and checks totaling $150,000. The money is used for employee enhancement programs within the organizations.

July 2002

Upgrades to satellite bandwidth off-island set for Kwaj

The Ground-based Midcourse Defense program gave the U.S. Army Kwajalein Atoll half a million dollars to upgrade satellite connections to nearly triple the available satellite bandwidth off-island. The upgrades are scheduled for completion by February 2003.

While the primary reason for increasing off-island bandwidth is to allow faster mission data transfers, the community also will benefit. Obvious improvements will include more commercial telephone lines to reduce blockage and increased, faster Internet access.

Bethea assumes command of 1st SATCON Battalion

Lt. Col. Mearen C. Bethea assumed command of the 1st Satellite Control Battalion in a ceremony June 28 at the Peterson Air Force Base Parade Field in Colorado Springs, Colo.

Outgoing commander Lt. Col. Winston L. Davis, who had been commander since June 2000, left to attend the Naval War College in Newport, R.I.

Bethea's previous assignment was as chief, Customer Support Branch, Command Information Systems Support Division, J6 Directorate, Central Command, MacDill Air Force Base, Fla.

Maj. Tim Haynie, left, the Spectral Operations Resource Center officer-in-charge, reviews maps of the Millennium Challenge 2002 exercise area with Space Support Element noncommissioned officer-in-charge Staff Sgt. Tony Simas. The maps are printed from terrain images pulled down from a satellite.

SMDC participates in Millennium Challenge 02

More than 13,000 U.S. military and civilian personnel, including more than 50 personnel from the U.S. Army Space and Missile Defense Command, participated in Millennium Challenge 2002 from July 24-Aug. 15.

The joint experiment used live field forces and computer simulation at various locations in the United States to simulate a realistic 2007 battlefield to assess the interoperability of new methods to plan, organize and fight.

Experiment leaders were looking to see if computer-based, collaborative tools could be used to enhance command and control performance, organization, information flow and decision making during simulated battle sessions.

Information learned and validated during MC02 will help answer questions about the development of a future joint force and provide valuable data to decision makers responsible for military transformation.

August 2002

RTS celebrates 100 percent tracking of new foreign launches

The Reagan Test Site on Kwajalein Atoll on July 13 celebrated three years in a row of 100 percent tracking of new foreign launches. For fiscal year 2002, the range successfully tracked all 23 new foreign launches it had to catalog.

New foreign launches are typically satellites, mainly launched by Russia and China. The only other time the range scored 100 percent in tracking new foreign launches before the current streak was 1993.

The Reagan Test Site has actively tracked new foreign launches since 1983. The range tracked 34 events, which means it tracked, as required, each pass made by the foreign-launched object. ALTAIR recorded 22 of those tracks while TRADEX picked up another 12.

Brown assumes command of U.S. Army Kwajalein Atoll

Col. Jerry P. Brown assumed command of the U.S. Army Kwajalein Atoll in a ceremony July 30. He replaces Col. Curtis L. Wrenn Jr.

Brown came to USAKA after serving for three years as chief of War Plans at Headquarters, Department of the Army, at the Pentagon in Washington, D.C.

Wrenn left to become deputy director of Installation Management-Eastern Region at Fort Monroe, Va.

Clinton visits Kwaj

Former U.S. President Bill Clinton made the first ever presidential stop to Kwajalein on May 18 while en route to East Timor on a diplomatic mission. A crowd of more than 200 residents greeted Clinton. He shook every hand presented to him and posed for pictures during his historic one-hour visit.

Four Alaskan children attend Space Camp

HUNTSVILLE, Ala. — It hasn't been that long since the U.S. Army Space and Missile Defense Command broke ground in June at Fort Greely, Alaska, for a testbed site for the Ground-based Midcourse Defense System, and already the area's children are learning about space and missile defense.

Four children from Alaska — two who live near Fort Greely and two from Kodiac — attended Space Camp at the U.S. Space & Rocket Center in Huntsville, Ala., Aug. 5-9, on scholarships awarded them by the Army Space and Missile Defense Association (ASMDA). It's the first time children from Alaska have received the ASMDA scholarship.

"We support the Space and Missile Defense Command, the Program Executive Office for Aviation and Missile Defense, and the Ground-based Midcourse Defense System," said Rodney Robertson, the vice president of ASMDA. "We provide the scholarships to Space Camp as a way for children to learn about space and missile defense. Our mission is to introduce children to science and engineering careers."

Over the past year, the ASMDA has sponsored 30 children from Washington, D.C.; Colorado Springs, Colo.; and Huntsville. And now Alaska.

Crystal Green, 10, daughter of Cheryl and Dan Green, and David Hecimovich, 11, son of Dave and Sandy Hecimovich, attended from Delta Junction, Alaska. Sean Price, 11, son of Wanda Price, and Kyle Capling, 13, son of Todd and Michelle Capling, attended from Old Harbor, Alaska. Sean and Kyle are members of the Alutiiq tribe and Old Tribal Council.

ASMDA selects children for scholarships based on three criteria: any child aged 9-12, of a parent or guardian assigned to SMDC, PEO-AMD or Ground-based Missile Defense Joint Project Office (Huntsville); charities; and special interest. Selection is based on an essay written by the child about space, financial need, an interest in space or science, school grades and geographic location.

The scholarship includes one week at Space Camp at the U.S. Space & Rocket Center in Huntsville, round-trip airfare and unaccompanied minor fee, transportation to and from the Huntsville International Airport to the Space & Rocket Center, a Space Camp flight suit and clothing package, a phone card to call Mom and Dad, and spending cash —Shuttle Bucks — for snacks and candy.

ASMDA is a non-profit organization with membership available to all active and former government employees and members of the business community who support space and missile defense.

(Photos by Debra Valine)

Kyle Capling, right, practices assembling a structure that he will be required to assemble during an upcoming simulated space walk.

Sean Price carefully reviews the procedures handbook during a simulated mission.

In their own words: 'Everything at Space Camp is so much fun'

By Crystal Green

I had a lot of fun at Space Camp. I had no specific favorite thing at camp because everything we did was so much fun. I made a lot of good friends.

We had missions in simulators. The mission specialists got to go out of the simulators and build something called the access which is a structure in space. On the missions, we had to work as a team. None of us could have done a mission all by ourselves.

The staff and counselors are helpful and nice. They'll help you if you're homesick, just plain sick or sad, no matter what. They will cheer you up. They are always very friendly. Whoever your counselor is, he or she will be a good one.

They had a machine (MMU) that simulated a jet pack. In it you go around in all nine directions and you control it. You cannot go up and down with one of these chairs on Earth, but the MMUs are different in space. If the astronaut's tether broke off from the Space Station or shuttle, they could turn it on and direct themselves back to the Space Station or shuttle. They also had a 1/6 gravity chair. It's a chair that is on bungee cords and you jump really high and far, like in space.

They had two rides, the Space Shot and the G-force. The Space Shot went up and down really fast. It's experiencing what astronauts experience at take off. The G-force spins you around really fast and you go up and down in your seat.

I was interested in space before, but now I'm more interested. I want to go back to camp at least two more times for Aviation Challenge and Space Academy.

It was an honor to get picked and I thank the people who provided the scholarship for me to go. It was fun and educational.

The four children from Alaska attending Space Camp met with Huntsville Mayor Loretta Spencer.

By David Hecimovich

I won a scholarship to go to the U.S. Space Camp in Huntsville, Ala. There I made friends, learned about space, went on simulators and saw a whole bunch of interesting movies and objects.

The camp was really big and there were a lot of people there. During the week we learned things while having fun at the same time. We rode the simulators a lot. The four fun ones were the Space Shot, the G-force, the MMU and the astronaut trainer. Each of them simulated what it was like in, or going into, space.

There was an I-Max theater. It was a big curved wall that was the size of about 20 regular theater screens across, and about 35 theater screens vertical. The I-Max showed three different movies that were each about 1 hour long.

One day after going on the moonwalk simulator, we had lunch with the Huntsville mayor. We went up to the board room and had salad and pizza. The people were very interested to hear about what kinds of things we could do and see in Alaska. They were astonished by the creatures there, like bear and moose. After we talked about hunting and fishing, the mayor and the other people there wanted to come to Alaska to hunt and fish.

After lunch with the mayor, we all got interviewed on TV and for the newspaper. It was fun getting to be on TV and getting interviewed for the newspaper.

We learned a lot and had a lot of fun. I want to go back next year. Come graduation from Space Camp, we were burning hot because we were in our spacesuits and regular clothes. It felt good standing up at Space Camp and being able to tell people at home that I made it through Space Camp and graduated.

Crystal Green, right, and David Hecimovich are interviewed by Ken Kesner of the *Huntsville Times* newspaper.

MC02 proves Space-based images helpful to warfighters

Story and photos by Debra Valine
Editor, *The Eagle*

When the warfighters parachuted into the drop zone at the National Training Center at Fort Irwin, Calif., during exercise MILLENNIUM CHALLENGE 2002 (MC02), they did so with near pinpoint accuracy and full confidence.

Using enhanced satellite imagery acquired by the Space and Missile Defense Command's Space Support Element (SSE), co-located with the 82nd Airborne Division's tactical operations center some 2,500 miles away from the drop zone, exercise participants proved the value of space-based assets to the future warfighter.

Right view of the Space Support Element (SSE) used during MILLENNIUM CHALLENGE 02 at Fort Bragg, N.C.

MC02, conducted July 24-Aug. 15, was a joint exercise that combined simulation with a live field exercise to determine the feasibility of a joint force conducting rapid, decisive operation in this decade using technology to link the services' individual information, command, communications and operations elements as part of ongoing force transformation efforts.

"Having an Army Space element co-located with the DMAIN during the exercise proved to be extremely beneficial in obtaining timely imagery of a target area," said Maj. Carmine Apecella, acting deputy G2, 82nd Airborne Division. "The added benefit of having them there was that the imagery they provide is able to be manipulated to a format that was most useful for us. In other words, if we needed to put grid lines on the imagery, we could do that. If we needed to enlarge a particular area, we could do that also. The other advantage to having them there was that they have a huge database of archived imagery. If the area we required was already 'shot' and on file in their database, we would have the product immediately. If the required area was not on file, they could put in a request for the area to be shot, but this of course would take a little more time," Apecella said.

SMDC evaluated four initiatives during MC02 to validate concepts that use satellite imagery and state-of-the-art technology to enhance the battlespace picture for future warfighters. Objectives included highlighting the criticality of space and missile defense in Rapid Decisive Operations (RDO) and Army Transformation, as well as continuing along the path to normalizing space. A third objective was identifying space and missile defense Doctrine, Organization, Training, Leadership, Materiel and Soldiers (DOTLMS) solutions for the Objective Force.

The **Tactical Space Initiative** (TACSPACE) examined the composition and tactics, techniques and procedures of space asset support to the Army Forces Headquarters, in this case, the 82nd Airborne Division.

"TACSPACE primarily addressed space support to the military decision-making process using the six-person space support element (SSE) operating the SSE toolset (SSET)," said Kurt Reitinger, Space and Missile Defense Battle Lab experiments manager.

The SSE toolset includes a High Mobility Multipurpose Wheeled Vehicle (HMMWV) shelter containing hardware and software and wide-band satellite communications (SATCOM). The SSE consists of soldiers, a vehicle, communications equipment and hardware/software space analysis and processing tools. The current single SSET is a prototype system designed for experimentation and validation of Interim Division (IDIV) capabilities and future operational concepts.

"MC02 demonstrated the soundness of the SSET design, its ability to meet IDIV requirements, operate in a joint environment and support RDO at the Army division level," Reitinger said. "The Army Force (ARFOR) supported by the SSET was the 82nd Airborne Division. The SSET was perceived by the Division as a value-added capability for the Army Force."

TACSPACE provided significant space force enhancement and limited space control support to the ARFOR. "The SSET performed as designed; the SSE was accepted as an integral member of the Battle Staff conducting Effects Based Planning; internal wide-band SATCOM provided a significant capacity for communications," Reitinger said.

The **Spectral Information Initiative** employed satellite sensors, in-theater downlink and distributed processing to create timely, high-resolution battlespace visualization for Army Forces (ARFOR) engaged in tactical operations.

"This experiment integrated nine civil-commercial imaging satellites, a regional support enclave containing direct downlink and processing tools, high data rate satellite communications and a small support element at the ARFOR Main to generate and deliver battlespace visualization products," said John McMurray, Space and Missile Defense Battle Lab Spectral Initiative coordinator.

The system delivered 15 new image sets over the battlespace and more than 40 individual battlespace visualization products tailored to meet ARFOR information requirements during the exercise.

The SATURN commercial satellite communications system, a component of the TacSpace initiative, provided low-cost high-data-rate-transfer of image and terrain information which was crucial to several concurrent initiatives according to McMurray.

"Direct downlink, in-theater processing and satellite communications enabled spectrally analyzed battlespace images to be in the hands of the ARFOR G-2 within 2½ hours of the image collection time. Spectral images placed as display backgrounds into Maneuver Control System (MCS)-Lite and All Source Analysis System (ASAS)-Lite improved the G-3 placement of control measures on easily identified terrain features," McMurray said. "The 82nd Airborne Division commander stated that clear drop zone images generated using high resolution commercial images would help soldiers overcome disorientation experienced upon landing. The Forces Command (FORSCOM) G-2 stated that spectral information was a great capability that should become complementary and enabling to the intelligence effort."

Embedded National Tactical Receiver (ENTR) is a 3- by 5-inch circuit card radio receiver that obtains national broadcasts via SATCOM. ENTR is smaller and less expensive than legacy radio receivers. ENTR provides access to critical situational awareness information for the warfighter. During MCO2 this information was provided using a single receiver card and standard antenna, thus gaining a significant reduction in footprint, cost, power consumption, and maintenance requirements as compared to legacy SATCOM devices.

"This experiment integrated an ASAS box, which contained the single channel ENTR card that sent data to nine connections that included the ARFOR ACE. Between 300 and 500 messages a day were received, processed and distributed to these nine connections," said Capt. Tim Tubergen, the initiative coordinator. "This one channel feed was the only Tactical related Applications Process Data Dissemination system (TDDS) feed the ARFOR received and was not exploited to its full potential in the ARFOR ACE due to firewall issues. Even though the ACE did not use the data to its full potential, this system was still a success because this was the first time that the ENTR feed was sent outside the Local Area Network (LAN) to a separate component (ARFOR ACE). This was accomplished by send mail.

"ENTR was able to distribute up to nine connections," Tubergen said. "The direct feed to W3 was very helpful to the National Reconnaissance Organization (NRO). The ENTR feed also worked very well with the LAN connection to the Broadcast Request Imagery Technology Experiment (BRITE) system. The Single channel ENTR card proved very valuable to the operators in the SSE.

The **BRITE** system is software that provides near real time raw secret-level national imagery to the lower level disadvantaged maneuver commander. BRITE imagery enhances a commander's ability to select the most favorable course of action before the fight, to maintain situational awareness during the fight and to conduct battle damage assessment (BDA) after the fight. The exploitation of BRITE imagery can reduce casualties and increase the probability of mission success.

"This experiment integrated national technical means (NTM) satellite imagery to the ARFOR main command post to generate and deliver battle space visualization to the commander and planning staff," said Maj. Gregory Glover, space operations officer, Space and Missile Defense Battle Lab Space Directorate. "Technical issues prevented timely transfer of images to the ARFOR (though NAI imagery was provided when available). Despite timeliness issues, the BRITE technical architecture was successfully demonstrated."

Live collects over the National Training Center started July 24; however, due to network and firewall constraints emplaced by the Joint Forces Command network manager, imagery could not be exploited until July 30. Additionally, technical issues involving the use of domestic imagery prevented timely "chipping" from available imagery until Aug. 2. Numerous images were taken over NTC from July 24 – Aug. 9.

How will you pay for long term care if you need it?

Medicaid – 43.8 percent
Out-of-Pocket – 24.6 percent
Medicare* — 13.7 percent
Private Insurance – 10.3 percent
Other – 7.5 percent

***Provided for skilled home health care and short-term nursing home care following a hospital stay.**
(Department of Health and Human Services)

The answer may surprise you.

Long term care could be the most expensive care you may ever need. So what are your options for funding it?

As you can see from the information above, the largest sources of funding are from Medicaid and your own resources. But to qualify for Medicaid, you must spend down virtually all of your assets to state required levels.

You may have little choice or control over the care you receive, including care at home or nursing home care. If you need nursing home care, usually you can choose only from those facilities that have room for a Medicaid patient at the time you need care.

And what about paying out of your own pocket? Did you know the cost of an average stay in a nursing home is expected to be $495,560 by 2030?** Think of what that could do to your retirement assets.

**ACLI Study, "Can Aging Baby Boomers Avoid the Nursing Home? March 2000, page 15 (Average stay in a nursing home is 2.6 years at a cost projected to be $190,600 per year.

Be smart. Find out now why the new Federal Long Term Care Insurance Program may be right for you. Call 1-800-582-33337 or visit the Web at www.LTCFEDS.com to learn more about this type of insurance. Open Season ends Dec. 31.

(Photo by Capt. Lan Dalat, C Co., 1st SATCON Battalion)

Lifesaving attempt honored

1st Sgt. Kevin Hamilton, left, C Company, 1st Satellite Control Battalion, Army Space Command, is awarded the Army Achievement Medal in recognition of his efforts last March to save a young boy's life. The child, tragically, did not survive. The tree in the background was planted in the boy's memory at an award ceremony in Landstuhl, Germany. Col. David A. Rubenstein, commander of Landstuhl Regional Medical Center, made the presentation.

TRADEX receives upgrade for 40th birthday

By Jim Bennett
Editor, Kwajalein *Hourglass*

TRADEX is celebrating its big 4-0 this year and receiving a state-of-the-art upgrade.

The radar shut down in August for a six-month scheduled refit that includes hardware and software.

"We had reached a point where some of the equipment had become outdated and it was becoming difficult to maintain it," said Henry Thomas, TRADEX Kwajalein Modernization and Remoting (KMAR) integration lead.

"For some of the legacy equipment being replaced, commercial suppliers hadn't made replacement boards for 10 years or more," said Mark Schlueter TRADEX sensor leader.

The project involves replacing a 50-by-50-foot room filled with rows of avocado-green racks of computers and equipment from the early days of the radar. Before, a single rack held the computer processor for each sensor signal going out. Two boards in a computer, mounted in what looks like a high school locker from the back, now process all signals. Some components date back 40 years, predating some of the technicians and engineers working on them. In addition to the commercial hardware, software engineers in Lexington, Mass., write special algorithms and computer codes to align the computer with the task and maximize efficiency.

In the future, three to four individuals will operate TRADEX during missions from the Kwajalein Mission Control Center (KMCC). That's down from the 12 or so who once worked at the crowded control room in the TRADEX building. A few technicians will remain on site to ensure everything works properly.

"You can build in all the fault-monitoring systems, and KMAR certainly has just about everything you could anticipate, but you still need people," Schlueter said. "It's amazing what a human nose or ear can pick up when something doesn't smell or sound just right, sometimes long before the problem will show up on a sensor."

The prep work came at a time when, with ALTAIR down for KMAR, TRADEX held space surveillance responsibility. The radar successfully tracked 16 of 16 new foreign launches in that time, a 100 percent success rate, all while supporting 10 missions over the three months leading up to the shutdown, along with summer annual leaves for the crews.

"The timing was tough," Schlueter said.

The radar is the fourth sensor in the KREMS complex on Roi-Namur to undergo KMAR upgrades, a project that grew out of planning in 1997 and began in 1999. KMCC underwent a facelift in the summer of 2000, paving the way for the remote projects. ALCOR became the first radar remoted in October 2000, followed by MMW in 2001. ALTAIR crews finished its KMAR upgrades in June.

"They did a lot of the groundwork," Schlueter said. "If ALTAIR had a test plan to test a capability, we might have to modify it some, but we were able to use it."

In fact, the key feature of KMAR is the universality of the systems. Display screens will offer technicians a Windows-based, point-and-click ease as they monitor and track objects. Also, components for one radar will work in other radars, should the parts be needed, Thomas said.

But TRADEX crews faced a few individual challenges unique to their radar.

TRADEX moves in a full range of motion including "over the top." The system has to be modified to tell the radar where it is, for example, if it is performing a track that puts the dish into "plunge mode," as they call it. Also, TRADEX fires pulses in both L- and S-band frequencies, including a unique S-3 band. That requires an additional computer board to manage.

Likewise, the radar will see system improvements from the upgrade. For example, where TRADEX used to send multiple pulses to measure the length of an object, personnel were able to modify its systems using practices adapted from ALCOR and MMW. Now, after the upgrade, the radar will gain the same data with a single pulse.

And as TRADEX ages, this radar-wide modernization allows for upgrades to individual subsystems rather than the whole sensor, similar to changing out a VCR with a DVD in your home entertainment system.

"But the receiver and your speakers might still be good, so you could keep those," Thomas said.

Whether that will result in 40 more years for TRADEX remains to be seen. Technology is changing faster than ever, Schlueter and Thomas said. But the upgrades will complete the KMAR work at KREMS and put TRADEX in an enviable spot among other radars.

Said Schlueter, "We have guys from other ranges come here and they seem very interested in KMAR."

At 40, TRADEX is the oldest sensor at the Kiernen Reentry Measurements Site on Roi-Namur. With its full name of Target Resolution and Discrimination EXperiment, the radar was supposed to work for five years, undergo a refit and work five more years, all the time simulating Soviet radars of the time period. The radar acquired and tracked its first missile, an Atlas ICBM, on June 26, 1962.

Space soldiers train for first-ever All Army NCO/Soldier of Year board

By Sharon Hartman
Army Space Command

FORT A.P. HILL, Va. — For the first time ever, the Department of the Army is holding an Army-wide Soldier and NCO of the Year competition. For years, competitions have been held at the major command level, but now the Army's slogan, "An Army of One," has an entirely new meaning. One soldier. One NCO.

U.S. Army Space and Missile Defense Command's one soldier, Sgt. Sherman Johnson of B Co., 1st Satellite Control Battalion and one NCO, Staff Sgt. Darrick Noah of the Regional Satellite Communications Support Center in the Pacific, will be representing SMDC at the Department of the Army NCO and Soldier of the Year Competition.

Recently, Johnson and Noah spent several weeks training at Fort A.P. Hill, Va. under the guidance of NCOIC Sgt. 1st Class Marc Van Horn from the 1st Space Battalion in Colorado Springs, Colo.

Van Horn gave an overview of the grueling training that Noah and Johnson are undergoing during a two-week period in the humid heat of a Virginia summer.

"They are being trained on tasks associated with several different areas to include nuclear, biological and chemical awareness; first aid; weapons training; physical fitness; and day and night land navigation, as well as military justice, drill and ceremony and other military subjects that will be on the written test," said Van Horn.

"The instructors are walking them through each task step-by-step, so they understand it, then the soldiers complete the task for time. There is a matrix of all the tasks, and the tasks are marked off on the date and time when the soldiers complete each task. They continue until the soldier and the instructor both feel comfortable with the task. If they feel weak in an area, there is retraining planned, so they can go back over it again.

"When they are in the competition, once the grader instructs them to begin, they have to start — and there is no stopping. They are grading you on your knowledge of the task and time."

Several other members of the command assisted Van Horn as instructors and took the competitors through tasks relating to a specific subject matter.

Staff Sgt. Darryl Jackson from B Company, 1st Satellite Control Battalion, instructed the Nuclear, Biological and Chemical training and led Johnson and Noah through Mission Oriented Protective Posture levels and the decontamination process as part of their training.

Staff Sgt. Robert Kelley of the Army Space Command Operations Center in Colorado Springs took the contenders through the first aid tasks, which included bandaging wounds and how to treat shock.

In charge of weapons training was Staff Sgt. Brent Smith from A Company, 1st Satellite Control Battalion, who commented on his feelings of being selected to be an instructor.

"I was at these boards before at the MACOM level, but there was never a chance to go beyond that. When my chain of command informed me that my name had been sent down to be here as an instructor, I felt honored," said Smith.

"I felt that if I couldn't compete, the next best thing is to help train someone and I could live my dreams through them."

Land Navigation tasks are often considered the most challenging of the competition.

"Land Navigation is probably going to be one of the most important areas. It's going to separate the competitors," said Van Horn.

"All events are important, from the PT test through the written test to the Common Task Tests — every task provides an opportunity to separate some from the pack."

Staff Sgt. Darrick Noah, RSSC Pacific, 'tends' an abdominal wound.

(Photos by Sharon Hartman)

Sgt. Sherman Johnson, B. Co., 1st SATCON, lies in wait for the 'enemy' during training for the first Army-wide Soldier/NCO of the Year boards.

Noah and Johnson were both very proud and excited to be representing SMDC.

"Boards expose you to people from different commands and allow you to expose yourself to knowledge you wouldn't normally be associated with in your everyday career field. It allows you to stand out among your peers. I am going to enjoy the competition and look forward to meeting the Sergeant Major of the Army," said Noah.

"The training has been intense, but it's necessary since this is obviously the hardest board there is. That's taking into account the level of competition, number of tasks, and the amount of publicity this board will generate."

"It's the entire Army," Noah said. "There are so many different career fields now. Everybody's job is so different. They are looking for the one NCO that is going to be the subject matter expert better than anybody else, so training on each task will be a tremendous benefit to us in this competition."

Johnson concurred, adding, "I am excited and think it's an honor to be chosen to represent SMDC as its Soldier of the Year and look forward to showing them what SMDC has to offer."

In discussing this being the first ever DA-level NCO and Soldier of the Year board, Smith noted the importance of the event.

"I think this competition will be outstanding. I actually believe it has been a long time coming. I think it's part of the whole Army transformation.

"They are going to actually place significance on the slogan, "An Army of One." There really will be an Army of One — so to speak. One soldier to speak for all, one NCO to speak for all.

"That NCO and that soldier are going to bridge the gap along all the career fields and show the rest of the Army that people can actually be multidimensional and they don't just have to worry about their specific field. They actually can be an Army of One," concluded Smith.

But to be the "one" requires a diverse knowledge of the Army, thus the training program was born.

"We had a lot of time constraints to get land ranges and people together, pulling it all together as one team, but I think it was worth it. Yesterday was a long day, a hot day, but they hung with it. Today wasn't any easier, and I think they will give a good representation from SMDC," said Van Horn.

Smith agreed saying, "I know Sgt. Johnson personally and I think he's an excellent candidate. He is outstanding on boards. I've seen him there before and he's always been impressive. Sgt. Noah has impressed me here as well, and I feel like they give SMDC a good chance to win.

"Even if they don't win, it's a great experience and something they will never forget, even when they are out of the military. They competed in an "All Army" board with soldiers from the rest of the world and proudly represented SMDC," said Van Horn.

The Army competition concluded Sept. 27 in Arlington, Va.

SMDC's Family Action Planning Conference highlights issues

By Rhonda K. Paige
Arlington, Va.

Living up to its reputation as the model program for the Army, coordinators and participants in the U.S. Army Space and Missile Defense Command's Army Family Action Plan (AFAP) 2002 Planning and Training Conference, accomplished in only four days what could normally take months.

In its third year, the annual AFAP Conference took place, Aug. 13-16 at the Crystal City Marriott, Arlington, Va. The theme for this year's conference was "Soaring Beyond our Limits."

"Our conference goals were three-fold – to identify and prioritize soldier, family and civilian issues that are critical to SMDC and the Army family; to provide HQDA-level training that will improve SMDC AFAP programs at local levels; and to enhance strategic communication and marketing of the AFAP program by affording numerous national level organizations, exhibitors and sponsors an opportunity to participate," said conference coordinator, Portia Davidson, SMDC, chief, Community and Family Support Division.

Exhibitors included The Association of the United States Army, Armed Services YMCA of the USA, International Child Art Foundation, Points of Life Foundation, and the National Military Family Association. Numerous Department of Defense and Department of Army leaders participated in the conference, including The Honorable Thomas E. White, secretary of the Army; Sgt. Maj. Jack Tilley, sergeant major of the Army; LTG and Mrs. Joseph Cosumano, commanding general, SMDC, and his spouse; Maj. Gen. John Urias, deputy commanding general for Research, Development and Acquisition, SMDC, and his spouse; and Brig Gen. and Mrs. Richard Geraci, deputy commanding general, Army Space Command and his spouse.

Representing all components of the Command, 41 delegates, including 11 teen delegates evaluated 25 issues and recommended 12 issues with recommendations going forward as entries to the Headquarters Department of Army's Nov. 02 AFAP Conference.

Speaking in support of the healing arts issue and recommendations, Davidson said, "SMDC will serve as a pioneer and model for the Army, promoting the well-being "Healing Arts" initiative. This project is very exciting and we are proud to be a model for the Army."

Delegates also voted on the "top five SMDC issues" most critical to the Command: Capital Gains Tax on sale of primary residence; Survivor Benefits Plan (SBP) options; TRICARE referral process for long-term/extended health conditions; moving in the middle of the school year; and auto rental reimbursement during overseas PCS.

Teen delegates display the six-foot canvas mural they painted.

Both the opening and closing ceremonies of the conference stirred the emotions of attendees and included numerous dignitaries, guests, and noteworthy participants such as the 3rd U.S. Infantry (The Old Guard) Army Color Guard; and the Honorable Thomas E. White, Secretary of the Army. Highlighting the closing ceremony, were two Sept. 11 commemorations.

Cosumano presented three of the surviving family members of the attack on the Pentagon with commemorative memory plaques created by volunteers from SMDC' s Huntsville offices.

Teen conference delegates, under the direction of renowned artist Marietta Dantonio-Fryer, professor of art, Cheney University of Pennsylvania, created and painted a six-foot canvas mural. A tribute was narrated by Elizabeth Hurt, titled "Overcoming the Face of Tragedy," honoring victims of the Sept. 11 attacks. The mural was presented to Secretary of the Army White and is currently on display at the concourse level of the Pentagon, and will later be displayed throughout the United Nations.

These commemorations and other key events of the conference, gained national attention and were covered by local network television, and Department of Defense press.

For additional information about the 2002 AFAP Conference and SMDC'S overall AFAP program, visit the Internet at: http://www.smdc.army.mil/FamilyPrograms/Index.html.

Army Training and Leader Development Panel completes Warrant Officer Study

The Army in August released a study conducted by the Army Training and Leader Development Panel (ATLDP) focused on training and leader development requirements for warrant officers as the Army transforms to the Objective Force. This study (Phase III), the third conducted by the ATLDP, is part of the largest self-assessment ever done by the Army. It follows studies of the commissioned officer corps (Phase I) and the noncommissioned officer corps (Phase II), the results of which have been previously released.

The warrant officer study concludes the Army must make fundamental changes in the warrant officer cohort to support full spectrum operations. At the heart of the change is a complete integration of warrant officers into the larger officer corps, a process begun in the 1980s but never completed. Specifically, the study concludes that the Army needs to clarify the roles of warrant officers, then make changes to their professional development, training and education, and manning.

Warrant officers make up 2 percent of the Total Army. Fifty-four percent of warrant officers are in the active force, 33 percent are in the Army National Guard, and 13 percent are in the Army Reserve. Warrant officers serve in every branch except infantry and armor. More than half of all warrant officers serve in combat arms and 48 percent serve in the aviation field as pilots, maintenance technicians, safety officers and in other aviation specialties.

When asked in a survey, "What would you tell the chief of staff of the Army is the most important change he can make to warrant officer training and leader development?," the top five responses were in the areas of the warrant officer education system, pay and compensation, the role of the warrant officer, technical/Military Occupational Skill (MOS) training and insufficient resources.

The study showed the issues are fully intertwined and linked to each other and that changes must be relevant to the roles of warrant officers, and connected to each other by warrant officers' need for life-long learning, structure, and standards and assessment.

Recommendations in the study's action plan require Army senior leaders to make decisions, set priorities, and allocate resources. The recommendations concern the full integration of warrant officers into the officer corps; the warrant officers' role in the Total Army; recruiting, accession and retention; pay and compensation; professional development and personnel management; and training and education.

Army Chief of Staff General Eric K. Shinseki chartered the ATLDP in June 2000. He instructed the Panel, which convened at Fort Leavenworth, Kan., to examine issues affecting training and leader development, and empowered the Panel to examine appropriate institutions, processes, tools and the environment.

The Panel completed Phase I (Officer Study) in May of 2001, and Phase II (NCO Study) in May 2002. The Army instituted a management process under the proponency of the Army G3 to determine the feasibility, suitability, and acceptability of the recommendations.

The Army integrated the recommendations into its Transformation Campaign Plan and has implemented a number of the recommendations and developed actions, decisions and resources required to implement the others.

The ATLDP continues its mission by examining Department of the Army civilians (Phase IV). The panel will conclude its mission by developing a final report on training and leader development for the Army that fosters battlefield and operational success and develops our operational commanders and leaders to meet the demands of our National Military Strategy.

The ATLDP (Warrant Officer Study) report is available at www.army.mil.

Noble Eagle

Continued from page 1

CLEAR SKIES II and OPERATION NOBLE EAGLE are joint service and inter-agency operations that utilize the North American Aerospace Defense Command, Army, Navy, Air Force, Federal Aviation Administration and the Secret Service among others.

"Our staff and the soldiers of 4-5 ADA showed a tremendous amount of adaptability when quickly transitioned from an exercise to what became the first deployment of ground base air defense to our nation's capital since 1961," said Col. Robert Carney, 32nd AAMDC G3.

Carney also said he was impressed by how well all the services and agencies involved worked together, "One example of joint coordination during this operation is a plan we are working on to use naval barges as platforms for the Avenger Weapon Systems."

This operation already integrates fighter and support aircraft, radar and ground-based air defense systems and communications including 4-5 ADA's Sentinel radar, Avenger Weapon Systems, and Stinger Man Portable missile systems.

Battery D, 4-5 ADA commander Eric Runningen said, "Our mission here in the National Capital Region is to provide the short-range aspect of the layered air defense over our critical national assets."

4-5 ADA battalion commander Lt. Col. Todd Morrow, said the Renegades were chosen for this mission because their capabilities met the mission's needs.

"This battalion is perfect for this mission because we not only field the most modern equipment, but we are trained, fully mission capable and have the most competent and confident soldiers and leaders – which is a lethal combination in any environment," said Morrow.

The soldiers of 4-5 ADA continue to be at a high state of alert and motivation, and are relying on previous training for confidence in the future of this mission.

"We're doing the same things we've done a million times before on West Fort Hood or at the National Training Center, except now we're in an urban environment." said 2nd Lt. Peter Mahmood, Avenger platoon leader, 4-5 ADA.

This urban environment requires innovative solutions to issues like force protection, terrain management and movement of personnel. Additionally 4-5 ADA soldiers successfully handled the extra stresses and pressures related to being a highly visible part of a high profile operation.

"When the pressure rises, the noncommissioned officers step up and make sure the soldiers are squared away and taken care of," said Cpl. Eric Selvidge, Battery D, 4-5 ADA team chief. "We conduct checks and inspections, and make sure they are fed and rested."

Command Sgt. Maj. William Sotomayor, 32nd AAMDC, feels this operation continues to be a very successful mission from the soldier's standpoint.

"This week has reinforced my belief there isn't a mission too difficult or a sacrifice too great for these soldiers," said Sotomayor.

Deployed soldiers celebrate Labor Day with Army Space Command-sponsored run

By Maj. Robert N. Zaza
Unit reporter

BAGRAM, Afghanistan — Labor Day 2002, was celebrated far from American shores in an untraditional fashion. Eschewing barbecues for sweat and real "labor," more than 250 U.S. soldiers, sailors, airmen and Marines, government and Red Cross civilians, plus soldiers from eight different countries celebrated the holiday with a 5.9 mile run, sponsored by Army Space Command.

Bagram Air Base possesses everything a runner could want: high altitude, dust, rocks, snakes, scorpions, and last but not least, land mines. It's what could easily be titled "Xtreme Running."

The run involved detailed planning for force protection, to ensure safety of the runners. Sgt. Sean McGrane, of the 1st Space Battalion, coordinated for Army paratroopers and Air Force Security Forces to provide perimeter security for the runners, who ran a course around Bagram Air Base's outer perimeter, past junked MiG-21 fighter planes and rusted-out Russian personnel carriers. The course took the runners through an area where soldiers normally have to carry weapons. Being able to run without weapons was a great morale-booster to the runners.

McGrane staffed the force protection measures and the route through the Provost Marshal's Office and Base Operations for the commanding general's approval. He also contacted "Runners World" magazine, which provided the numbers for the runners to wear.

1st Sgt. Renee Blashford, 519th Military Intelligence Battalion, volunteered to manage the registrant database and the T-shirt funds. Other volunteers helped keep time, man the water points and hand out prizes at the finish line. All the helpers were extremely enthusiastic, and they helped make it a "professionally run race," said Blashford.

1st Lt. Frank Tedeschi, Corps Topographic Engineer, arranged for Logistical Task Force 129 to provide two water points and fresh fruit at the finish line. Sgt. Sam Huseby, 1st Space Battalion, laid out the course with Army Space Command markers to ensure no runner went astray into a mined area or onto the airfield.

The race began at 6:30 a.m. The first three finishers in each gender category received a 1st Space Battalion coin and a certificate signed by the commanding general, CJTF-180, Lt. Gen. Dan K. McNeill. The American Red Cross provided Red Cross coffee mugs for the first 72 runners to cross the finish line.

McGrane, Tedeschi, Huseby and Blashford also received copies of the book "Patriot Hearts" by Colorado Springs author William T. Coffey Jr., for their efforts in putting on a professional and safe sporting event.

(Photo by Spc. Ann Schult)

Runners with MiG-21 carcass in background.

Sharing information on and off the job, Gary Ledbetter's passion

SMDC-Huntsville employee spreads The Word in Uganda

By Debra Valine
Editor, *The Eagle*

Gary Ledbetter, center, poses with Ugandan villagers during his recent trip.

Gary Ledbetter, an information management specialist with SMDC's Information Management office, has a passion for sharing information — both on the job and off.

For SMDC, Ledbetter works in the Plans and Operations Division, which is responsible for policies and managing the information mission area requirements for the command. That responsibility includes automation and communications requirements; computer network administration; and procurement of computer hardware, such as personal computers and laptops, and related software products.

Off the job, Ledbetter, an evangelist, shares information about Christianity.

Originally from Anniston, Ala., Ledbetter, who now lives in Arab, said a life-changing experience during his senior year at Jacksonville State University in Jacksonville, Ala., caused him to devote his non-working hours to spreading The Word.

"It was my grandmother's dream that led me to becoming an evangelist," said Ledbetter, who has a bachelor's degree in economics. "I didn't realize that her prayers had come true until my senior year, when I accepted Christ into my life."

Ledbetter returned July 30 from a two-week mission trip to Uganda, and already he is planning a return visit. During the trip, his team of 17 ministered to both the spiritual and physical needs of the Ugandans they met.

"We were involved in hut-to-hut evangelism in the bush," Ledbetter said. "We would go to a village with a translator and share the Good News that Jesus Christ loves them and that he had sent us to them. We also provided the villagers with clothing, medical supplies, food and transportation."

The primary modes of transportation in Uganda are walking and bicycling, although there are mopeds and taxi vans for those who can afford them. Ledbetter's mission team provided the pastors they visited with 15 bicycles. The team also provided personal computers, software and expertise to the town council.

"We established new churches while we were there, conducted pastor conferences and helped set up a program to build homes for the pastors," Ledbetter said. "We taught the pastors how to lead their people and follow up on the new converts on their path to becoming great commission Christians.

Ledbetter said he tries to apply what he learns from the Scriptures to his daily life.

"I use my faith to be the best employee I can be," said Ledbetter, an SMDC employee since 1989. "I try to always do the right thing.

"This trip has shown me a greater appreciation for my job and my life," Ledbetter said. "People who have very little materially — like the Ugandans — look at me and think I am rich. I come back and I realize that I cannot take my job for granted. God has provided a means for me to support my family."

The trip — the first of its kind for Ledbetter — rekindled his passion to get coworkers more involved in their communities and renewed his appreciation for America. He said there is more to life than work, and individuals should take advantage of that.

"We take training like Consideration of Others, but when it comes to actually stepping out and practicing what we are learning, that is another thing," Ledbetter said. "The Ugandan people have absolutely nothing materially, but they have attributes that are missing in a large percentage of Americans. They have humility and love. They greet you with a great big smile and it is contagious. Displaying that kind of genuine caring is very rare in Americans because many are too wrapped up in their own lives."

Army Space civilian Runs Pike's Peak Marathon

By Chief Warrant Officer Garth Hahn
Unit Reporter

COLORADO SPRINGS, Colo. — An Army Space Command civilian recently proved that it's not only astronauts and satellite controllers who reach the outer limits.

A 26-plus-mile run is beyond the reach of most people, let alone when half of it is straight up, but Mike Cornett, personnel officer, Headquarters and Headquarters Company, 1st Satellite Control Battalion, went where many have not ventured when he competed in the Pike's Peak Marathon here in mid-August.

This grueling race starts in Manitou Springs, just west of downtown Colorado Springs, Colo. Upon leaving the downtown area, the runners ascend the many switchbacks up the hills above town. Following Barr Trail, the historic path founded by Fred Barr in 1924, the marathoners reach the Barr Camp at 10,200 feet elevation, and press on to the top of the mountain at 14,110 feet, the halfway mark in the race! Then it's back down the trail for the last half of the marathon.

Obviously, this race is not something done without first undergoing a massive training effort. This year, the large Hayman Fire, which devastated more than 137,000 acres, forced the closure of the Pike's Peak National Forest for much of the summer. It was opened to the public a scant month before the marathon.

Mike Cornett

This closure limited the ability of the runners to train by trail running in this area. To make up for this, Cornett added several miles to his daily runs, and made four trips up to Barr Camp during the weekends leading up to the race. The combination of road and trail running nearly 40 miles a week gave him the training base he needed to do this run.

Cornett ran with 686 other motivated individuals on this difficult run, finishing solidly in the center of the pack at number 289. His completion of this run is made more remarkable by the fact that he is approaching 50 years old. In his own words, he's "no spring chicken!"

"I doubt I'll ever do it again, but I have to admit, it's a big kick to do something that very few people would even attempt. And since fitness is important to me, the training and the event certainly helped maintain that," he said.

(Photo by Bud H. Butcher)

Members of the third FA40 course take a class shot with Deputy Commanding General of U.S. Army Space Command and U.S. Army Space and Missile Defense Command. Front row, left to right: Lt. Col. Elizabeth G. Kuh, Maj. Saundra R. Yanna, Maj. Chauncy C. Nash, Brig. Gen. Richard V. Geraci, Maj. Andrew Weate, Maj. Katherine P. Thornton, and Lt. Col. James E. Lawson II. Middle row, left to right: Lt. Col. Jerome E. Thomas, Maj. Robert A. Spuhl, Maj. James E. Rozzi, Maj. Gordon R. Quick Jr., Col. Frank P. Todd, Maj. Dennis W. Brozek, and Col. David W. Shaffer. Back row, left to right: Maj. Patrick C. Suggs, Lt. Col. Bruce G. Smith, Maj. Don L. Wilkerson, Maj. Daniel D. Cockerham, Col. Kurt S. Story, Col. Jon P. Smart, and Maj. Stanley K. Russell, USMC.

Third Space Officer course graduates 20 new FA40s

By Maj. Laura Kenney
Army Space Command

COLORADO SPRINGS, Colo. — A third Space Operations Officer class graduated Aug. 23. The seven-week course, which began July 8, earned graduates the elite new specialty of Functional Area 40, and equipped them with the tools and knowledge to provide future combatant commanders guidance on conducting Space operations in support of the mission. Graduates can expect assignments to operational staff and Space systems program offices.

At the graduation ceremony held in the Air Force Space Command building on Peterson Air Force Base (the Army Space Command building officially opened in October), the graduates were congratulated by guest speaker, LTG Joseph M. Cosumano Jr., commander of Space and Missile Defense Command and Army Space Command.

"You were selected because you are successful. You will each bring something unique to this new specialty, your own backgrounds and the knowledge of your basic branches.

"Be adaptive. Change is upon us and is very significant in our business. Not only are you on the cutting edge — you will be paving the way for many Space operational concepts. Things have changed in the field just since you began this course. As you move into your assignments, you will be the experts on Space, bringing its 'gospel' to the warfighter," said Cosumano.

The 20 officers studied orbitology, satellite communications, Space-based navigation and intelligence gathering to include surveillance and negation of the same to opposing forces. The course is designed and instructed by SMDC's Force Development and Integration Center – West, located in Colorado Springs.

The course is divided into three segments beginning with 25 days of classroom instruction. Afterward, a week is devoted to off-site visits to places such as the National Reconnaissance Office, the National Imagery and Mapping Agency in Washington, D. C., the National Security Agency, and SMDC Headquarters.

Included are hands-on training sessions with the Army Space Program Office, which develops Tactical Exploitation of National Capabilities Space support systems in use by Army warfighters. The course also includes a 43-hour command post exercise designed to test each student's proficiency in 24 individual critical tasks.

The distinguished graduate, Maj. Daniel D. Cockerham, earned a grade point average of 97.3 in the academically challenging course. Also graduating were the new Army Space Command Chief of Staff Col. Kurt S. Story, and the new Army Space Forces Commander Col. David W. Shaffer, who earlier the same day had assumed command from outgoing commander Col. William J. Partridge.

Graduates were awarded the distinguished Air Force Space and Missile Badge for wear on their uniforms. The badge, which retains its distinctive Air Force blue even on the Army green Battle Dress Uniform, displays the Earth as viewed from Space, surrounded by stars and orbital paths, and features a central figure representing both an upward thrust into Space and the launch vehicles necessary for that movement.

New Kwaj range services contract awarded

Linda B. Gray (left), contracting officer for SMDC, Contracting and Acquisition Management Office Huntsville and Carmen Spencer, president of Kwajalein Range Services, LLC, and site manager at Kwajalein met Sept. 25 for the signing of a $626 million, four-year contract with a potential for 15 years valued at $2.5 billion. This contract is for logistics support and integrated range engineering support services at Kwajalein Atoll/Reagan Test Site.

(Photo by Jonathan Pierce)

Army Space Command soldiers take Ranger-style challenge

By Spc. Bradley D. Morrow
Unit Reporter

LANDSTUHL, Germany — Rangers are no longer the only ones who get a competition to determine the best among the best at soldier skills. Soldiers at C Company, 1st Satellite Control Battalion, Army Space Command, organized and participated in their first "Best Soldier" Competition in early August.

The competition — modeled after the famed "Best Ranger" Competition — pitted individual soldiers against one another as they sought to complete an arduous five-mile course with various tasks in the fastest time possible.

"It was rough. I definitely broke a sweat, but overall I had a great time," commented Sgt. Glen Shockley after completing the ordeal. Shockley took third place in the competition.

The trial was arranged along a five-mile path at the top of a nearby mountain and included several points where competitors were required to stop and test their soldier skills. The points included: M-16/A2 assembly/ disassembly, land navigation and map reading, buddy carries, grenade throwing, M-40 protective mask usage, and employment of the M-18 Claymore Mine.

Soldiers were evaluated on their ability to perform the tasks properly and complete the course in the shortest possible time.

(Photo by Capt. Lan Dalat)

First place winner of C Company, 1st Satellite Control Battalion's new "Best Soldier" competition, Staff Sgt. Kenneth Demars, displays the focus necessary to win as he disassembles his M16A2 rifle during a competition event.

"It was fun, challenging and an excellent way to spend a German morning," said Staff Sgt. Kenneth Demars. Demars took top honors in the contest by finishing all the points and the five miles in 51 minutes. Second place went to Spc. Cosme Lavalle, with a time of 54 minutes, and Shockley's 55 minutes netted third place.

The competition was a precursor to more intensive tasks that C Co. command will implement next year. "I love the ideals, the competitiveness and the sharpened soldier skills that are fostered by the 'Best Ranger' competition. I want to import some of the same ideals into this unit and garner similar results. This has the potential to be an excellent team building tool, as it increases a soldier's proficiency at wartime tasks and promotes a high degree of fitness — all under the guise of fun," said Capt. Lan Dalat, C Co. commander.

The After Action Review was filled with positive comments and helpful suggestions to aid in the further development of the program. C Co. soldiers can look forward to continued and progressively more challenging "Best Soldier" competitions.

Lavalle put it all together when he said, "We don't get the chance to go to the field very often due to real world job requirements, but this combined the Common Task Test aspects into an event that was actually fun. I look forward to taking the 'Ranger' challenge again soon."

1st Space Battalion gets new Command Sergeant Major

By Sharon L. Hartman
Army Space Command

COLORADO SPRINGS, Colo. — The enlisted chain of command at Army Space Command's 1st Space Battalion received a new top NCO in a change of responsibility ceremony held in August at the Battalion's headquarters here.

Command Sgt. Maj. Reginald Ficklin, 1st Space Brigade's command sergeant major, welcomed incoming Command Sgt. Maj. Lester Bailem as he assumed responsibility from outgoing Command Sgt. Maj. Oliver Forbes. U.S. Army Space and Missile Defense Command's Command Sgt. Major Wilbur V. Adams Jr. observed the changeover.

Command Sgt. Maj. Forbes is departing Colorado Springs to go to his next station in Fort Huachuca, Ariz. In his departing words, Forbes commented on his outlook of the command's future.

"Our organization is in the middle of a transformation. Sept. 11th changed a lot about how we do our business. Sept. 11 our nation was attacked. Our countrymen were attacked and a lot of them were killed.

"I believe there's going to be some serious retribution down the line. No matter if you are civilian or military, you are going to play a very important part in future operations," said Forbes.

In addressing the soldier, Forbes not only spoke of the future, but also brought in a bit of history quoting General George Patton as once saying, 'our mission is not to go out and die for our country, but to make our adversaries die for theirs.'

"The charge given to me is when you go out to do your mission, I must ensure that you are trained, equipped and motivated to go out there and do that mission.

"Sometimes sergeant majors have to make hard choices. I will always make the choice I need to make, because I do not want to send one of America's sons and daughters out in harm's way to get killed because a non-commissioned officer was ill prepared. So I'm always going to make that tough choice."

(Photo by Dennis Plummer)

Command Sgt. Maj. Oliver Forbes, left, 1st Space Brigade, presides as outgoing 1st Space Battalion Command Sgt. Maj. Reginald Ficklin passes the ceremonial sword to incoming Command Sgt. Maj. Lester Bailem during a change of responsibility ceremony Aug. 19.

Forbes also addressed the civilians, charging them with a responsibility of their own.

"The status quo is not good enough! Because these soldiers that you see here have a tremendous burden that has been placed upon their shoulders. They are probably the most deployed soldiers in the Army today. I can tell you that at any given time, the soldiers you see here right now are about the maximum number of soldiers I have here at one time in Colorado Springs.

"What that means is the Op Tempo for the 1st Space Battalion, the 1st Space Brigade, and SMDC is probably higher than any other organization in the Army today.

"Your charge that you should be living by is that you are going to do everything within your power to ensure that their transition goes smoothly. It might be an exercise or a deployment to some far off land to perform space support combat operations — whatever — your charge is to make certain that these soldiers are prepared to the best of their ability," said Forbes.

In accepting his new responsibility, Bailem thanked Adams and Ficklin for the opportunity to serve with such a great organization.

Remarking on his expectations of the position, Bailem said, "I'm sure this assignment is going to be different for me. It's going to be demanding and rewarding all in one breath, and I'm looking forward to that challenge.

"One of my first plans for the future is to get out there and visit all these great soldiers and civilians who've made this battalion one of the most sought after in the Army."

And a good time was had by all

Space and Missile Defense Command organizations in Arlington, Va.; Huntsville, Ala.; and Army Space Command in Colorado Springs, Colo., celebrated unit organization days in July and August with picnics and outdoor fun. Employees and family members enjoyed everything from softball and volleyball games to pie throwing and dominoes.

Children at the SMDC-Arlington organization day Aug. 9 toss a water balloon.

Kids enjoy themselves during the sack races as their peers and parents look on during the annual Army Space Command Organization Day held at Fort Carson's Turkey Creek Recreational Area in early July.

Spc. Jennifer A. Swift does the honors to Sgt. 1st Class Weldon H. Hall during a pie throwing as Sgt. Steven Cato recovers from his just desserts a moment earlier.

Jessica Ortiz, daughter of Staff Sgt. Edward Ponzio, Army Space Command, gets her face painted.

Bring on the food!

SMDC plans Security and Safety Awareness Day

Since the terrorist attacks against America on Sept. 11, 2001, Americans have learned that terrorism is real and the cities and towns of the United States are not immune from its grip. It is important to everyone's safety to periodically review and enforce safety and security practices.

To help maintain a high level of security and safety awareness, LTG Joseph M. Cosumano Jr., SMDC's commanding general, has designated Nov. 5 as Security and Safety Awareness Day. Commands in all SMDC locations will plan a program that focuses on security awareness and safety issues relevant to each location. Last year's theme, "Security and Safety Awareness: Now More than Ever," will continue this year.

"As today's threat-intensive environment becomes more hostile with each passing day, it is vital for all SMDC personnel to be equipped with the tools, techniques and knowledge needed to safeguard the work force and to protect our critical technologies from damaging security breaches," Cosumano said.

"SMDC's activities are among the most sensitive within the Department of Defense," he said. "The same concerns we had a year ago still exist today. In addition to the terrorist activities of late, cyber-terrorism continues to be a concern. Threats to classified and unclassified sensitive information are increasingly diverse and evolving rapidly. Mergers and acquisitions, downsizing, terminations, strategic alliances, migration to the Internet and electronic business initiatives all contribute to dynamic change, and dynamic change is linked to increased security risks."

• Huntsville — Security and Safety Awareness Day will be held at the Sparkman Center, Redstone Arsenal, Nov. 5. Two identical sessions will be held, 8:45 a.m.-noon and 1-4 p.m. to accommodate all members of the SMDC, PEO-AMD and other building tenants to include Missile Defense Agency employees, in-house contractors and by invitation Ground-based Midcourse Defense personnel.

• U.S. Army Kwajalein — joint security/safety awareness day in November. One of the highlights of the event includes the Kwajalein Police Department who will be finger and foot printing the children along with photographing them. These will be given to parents to carry with them off island in case of a missing child.

• SMDC-Arlington — Security/Safety Awareness Day Nov. 5 in the Command Conference Room with live TV throughout the suite from 8:30-11:30 a.m. Thomas P. Carey, Domestic Terrorism Operations Section, Counter Terrorism Division, FBI Headquarters, will speak.

• HELSTF — an informative event from 8:30-11:50 a.m. Nov. 5 in Bldg. HT 300. The event includes speakers from the FBI, 902nd Military Intelligence, the director of HELSTF, and safety.

• Army Space Command held its Security and Safety Awareness Day July 31, with 174 employees participating.

For more information on Security and Safety Awareness Day, call Brenda Turner (Huntsville), DSN 645-5468, Ed Longo (Arlington), DSN 332-6736, Lou Kubik (USAKA), DSN 254-2110, David Clawson (HELSTF), DSN 349-5190, Jimmie Hayden, DSN 328-8809, or Craig Seiler, DSN 692-8744.

"SMDC's goal is to increase confidence that our programs, the work force and family members are provided protection through a multi-disciplined security, safety and force protection approach," Cosumano said. "Participation is mandatory at all locations."